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1	2	5891621.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/15 19:46
7	768568	enzyme activity	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/15 19:47
13	2414	(enzyme activity) near3 kit	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/15 19:48
19	692830	protease activity	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/15 19:49
25	948	(protease activity) near3 kit	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/15 19:49
37	1	((protease activity) near3 kit) near10 app	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/15 19:51
43	0	((protease activity) near3 kit) near10 substrate) near10 brain	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/15 19:52
49	0	((protease activity) near3 kit) near10 substrate) near10 neuron	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/15 19:52
55	0	((protease activity) near3 kit) near10 substrate) near20 (brain or neuron or nerve or alzheimer)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/15 19:53
31	77	((protease activity) near3 kit) near10 substrate	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/15 20:01
61	0	((protease activity) near3 kit) near10 substrate) near20 amyloid	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/15 20:01
67	0	((protease activity) near3 kit) near10 substrate) and amyloid	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/15 20:01

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NEWS 9 Jun 03 New e-mail delivery for search results now available
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NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
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NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
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NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
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NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS

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AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
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=> s kit (5A) advantage
36 FILES SEARCHED...
60 FILES SEARCHED...
L1 3345 KIT (5A) ADVANTAGE

=> s enzyme (3a) substrate
26 FILES SEARCHED...
52 FILES SEARCHED...
78 FILES SEARCHED...
L2 190724 ENZYME (3A) SUBSTRATE

=> s l1 and l2
58 FILES SEARCHED...
L3 141 L1 AND L2

=> s kit (4A) advantage
45 FILES SEARCHED...
60 FILES SEARCHED...
L4 2957 KIT (4A) ADVANTAGE

=> s kit (3A) advantage
38 FILES SEARCHED...
60 FILES SEARCHED...
L5 2393 KIT (3A) ADVANTAGE

=> s enzyme (2a) substrate
29 FILES SEARCHED...
56 FILES SEARCHED...
L6 157202 ENZYME (2A) SUBSTRATE

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56 FILES SEARCHED...
L7 117 L6 AND L5

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L9 683994 ENZYME (3A) (INHIBITOR OR MODULATOR OR REGULATOR OR STIMULATOR OR ACTIVATOR)

=> s l9 and l8

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L10 28 L9 AND L8

=> d l10 1-28 bib ab

L10 ANSWER 1 OF 28 USPATFULL

AN 2003:11306 USPATFULL

TI Novel inositol polyphosphate kinase genes and uses thereof

IN Shi, Jinrui, Johnston, IA, UNITED STATES

Wang, Hongyu, Urbandale, IA, UNITED STATES

Beach, Larry R., Des Moines, IA, UNITED STATES

Rafalski, Jan Antoni, Wilmington, DE, UNITED STATES

Cahoon, Rebecca E., Webster Groves, MO, UNITED STATES

PI US 2003009011 A1 20030109

AI US 2002-42894 A1 20020109 (10)

PRAI US 2001-261465P 20010112 (60)

DT Utility

FS APPLICATION

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1000, JOHNSTON, IA, 50131

CLMN Number of Claims: 46

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 3309

AB This invention relates to newly identified polynucleotides and polypeptides in the phytic acid biosynthetic pathway, variants and derivatives of same; methods for making the polynucleotides, polypeptides, variants, derivatives and antagonists. In particular the invention relates to polynucleotides and polypeptides of the inositol polyphosphate kinase gene family. In particular this invention relates to using the newly identified polynucleotides and polypeptides to modulate the phytic acid biosynthesis in such a way as to decrease

phytate and/or increase non-phytate phosphorous, especially in corn or soy animal feedstuffs.

L10 ANSWER 2 OF 28 USPATFULL
AN 2002:346816 USPATFULL
TI Aspartyl protease 2 (Asp2) antisense oligonucleotides
IN Gurney, Mark E., Grand Rapids, MI, United States
Bienkowski, Michael J., Portage, MI, United States
Heinrikson, Robert L., Plainwell, MI, United States
Parodi, Luis A., Stockholm, SWEDEN
Yan, Riqiang, Kalamazoo, MI, United States
PA Pharmacia & Upjohn Company, Kalamazoo, MI, United States (U.S. corporation)
PI US 6500667 B1 20021231
AI US 2000-551853 20000418 (9)
RLI Division of Ser. No. US 1999-416901, filed on 13 Oct 1999
Continuation-in-part of Ser. No. US 1999-404133, filed on 23 Sep 1999
Continuation-in-part of Ser. No. WO 1999-US20881, filed on 23 Sep 1999
PRAI US 1998-101594P 19980924 (60)
US 1999-155493P 19990923 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: McGarry, Sean
LREP Pharmacia & Upjohn Attorney James D. Darnley, Jr.
CLMN Number of Claims: 8
ECL Exemplary Claim: 1
DRWN 18 Drawing Figure(s); 18 Drawing Page(s)
LN.CNT 5638
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides the enzyme and enzymatic procedures for cleaving the .beta. secretase cleavage site of the APP protein and associated nucleic acids, peptides, vectors, cells and cell isolates and assays. The invention further provides a modified APP protein and associated nucleic acids, peptides, vectors, cells, and cell isolates, and assays that are particularly useful for identifying candidate therapeutics for treatment or prevention of Alzheimer's disease.

L10 ANSWER 3 OF 28 USPATFULL
AN 2002:332816 USPATFULL
TI Growth factor homolog ZVEGF4
IN Gilbert, Teresa, Seattle, WA, United States
Hart, Charles E., Woodinville, WA, United States
Sheppard, Paul O., Granite Falls, WA, United States
Gilbertson, Debra G., Seattle, WA, United States
PA ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)
PI US 6495668 B1 20021217
AI US 2000-564595 20000503 (9)
PRAI US 1999-132250P 19990503 (60)
US 1999-164463P 19991110 (60)
US 2000-180169P 20000204 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Saoud, Christine J.; Assistant Examiner: Chernyshev, Olga N.
LREP Parker, Gary E.
CLMN Number of Claims: 14
ECL Exemplary Claim: 1
DRWN 8 Drawing Figure(s); 8 Drawing Page(s)
LN.CNT 4816
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Polypeptide growth factors, methods of making them, polynucleotides encoding them, antibodies to them, and methods of using them are

disclosed. Multimers of the polypeptides are also disclosed. The polypeptides, multimeric proteins, and polynucleotides can be used in the study and regulation of cell and tissue development, as components of cell culture media, and as diagnostic agents.

L10 ANSWER 4 OF 28 USPATFULL
AN 2002:311026 USPATFULL
TI Hm2 cDNA and related polypeptide
IN Briggs, Steven P., DelMar, CA, United States
Johal, Gurmukh, Columbia, MO, United States
Multani, Dilbag Singh, Columbia, MO, United States
PA Pioneer Hi-Bred International, Inc., Des Moines, IA, United States (U.S. corporation)
PI US 6486302 B1 20021126
AI US 2001-768585 20010124 (9)
RLI Division of Ser. No. US 1999-231227, filed on 14 Jan 1999, now patented, Pat. No. US 6211440
PRAI US 1998-71684P 19980116 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Carlson, Karen Cochrane; Assistant Examiner: Mitra, Rita
LREP Pioneer Hi-Bred International, Inc.
CLMN Number of Claims: 14
ECL Exemplary Claim: 1
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
LN.CNT 3250

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated Hm2 nucleic acids, and their encoded proteins. The present invention provides methods and compositions relating to altering Hm2 concentration and/or composition of plants. The invention further provides expression cassettes, host cells, transgenic plants, and antibody compositions. Also, the invention provides methods of identifying plant transformation by survival of transformed plant cells or tissues on a cyclic tetrapeptide toxin. The invention further provides methods of imparting disease resistance to plants susceptible to fungal pathogens, which utilize cyclic tetrapeptide toxins.

L10 ANSWER 5 OF 28 USPATFULL
AN 2002:302533 USPATFULL
TI Transcriptional regulator nucleic acids, polypeptides and methods of use thereof
IN Tao, Yumin, Urbandale, IA, UNITED STATES
Gordon-Kamm, William J., Urbandale, IA, UNITED STATES
Shen, Bo, Johnston, IA, UNITED STATES
Lowe, Keith S., Johnston, IA, UNITED STATES
Danilevskaya, Olga N., Johnston, IA, UNITED STATES
Mahajan, Pramod B., Urbandale, IA, UNITED STATES
Rafalski, Jan Antoni, Wilmington, DE, UNITED STATES
Sakai, Hajime, Newark, DE, UNITED STATES
Klein, Theodore M., Wilmington, DE, UNITED STATES
PI US 2002170087 A1 20021114
AI US 2001-5057 A1 20011204 (10)
PRAI US 2000-251555P 20001206 (60)
DT Utility
FS APPLICATION
LREP PIONEER HI-BRED INTERNATIONAL INC., 7100 N.W. 62ND AVENUE, P.O. BOX 1000, JOHNSTON, IA, 50131
CLMN Number of Claims: 76
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 3751

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated nucleic acids and their encoded proteins that act as cell transcription inhibitors and methods of use thereof. The invention further provides expression cassettes, transformed host cells, transgenic plants and plant parts, and antibody compositions.

L10 ANSWER 6 OF 28 USPATFULL

AN 2002:243133 USPATFULL

TI Peptide mutant of human ERAB or HADH2, its X-ray crystal structure, and materials and method for identification of inhibitors thereof

IN Abreo, Melwyn A., Jamul, CA, UNITED STATES

Agree, Charles S., San Diego, CA, UNITED STATES

Aust, Robert M., Alpine, CA, UNITED STATES

Kissinger, Charles R., San Diego, CA, UNITED STATES

Margosiak, Stephen, Escondido, CA, UNITED STATES

Meng, Jerry J., San Diego, CA, UNITED STATES

Pelletier, Laura A., Escondido, CA, UNITED STATES

Rejto, Paul Abraham, Carlsbad, CA, UNITED STATES

Showalter, Richard Edward, Santee, CA, UNITED STATES

Thomson, James Arthur, San Diego, CA, UNITED STATES

Tempczyk-Russell, Anna, Ramona, CA, UNITED STATES

Vanderpool, Darin, San Diego, CA, UNITED STATES

Villafranca, Jesus Ernesto, San Diego, CA, UNITED STATES

PI US 2002132319 A1 20020919

AI US 2001-931186 A1 20010817 (9)

PRAI US 2000-226123P 20000818 (60)

DT Utility

FS APPLICATION

LREP SHANKS & HERBERT, Intellectual Property, TransPotomac Plaza, 1033 N. Fairfax Street, Suite 306, Alexandria, VA, 22314

CLMN Number of Claims: 92

ECL Exemplary Claim: 1

DRWN 10 Drawing Page(s)

LN.CNT 12914

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The identification, isolation and modification of human ERAB or HADH2 is described. A crystal structure of ERAB or HADH2 is described which may be used in the discovery, identification and characterization of inhibitors or modulators of ERAB or HADH2. This structure provides a three-dimensional description of binding sites of ERAB or HADH2 for structure-based design of inhibitors or modulators thereof as therapeutic agents, for example in the treatment of Alzheimer's disease).

L10 ANSWER 7 OF 28 USPATFULL

AN 2002:217052 USPATFULL

TI Alzheimer's disease secretase, APP substrates therefor, and uses therefor

IN Gurney, Mark E., 910 Rosewood Ave. SE., Grand Rapids, MI, United States 49506

Bienkowski, Michael J., 3431 Hollow Wood, Portage, MI, United States 49024

Heinrikson, Robert L., 81 S. Lake Doster Dr., Plainwell, MI, United States 49080

Parodi, Luis A., Grevgafar 24, S-11543 Stockholm, SWEDEN

Yan, Riqiang, 5026 Queen Victoria St., Kalamazoo, MI, United States 49009

PI US 6440698 B1 20020827

AI US 2000-548367 20000412 (9)

RLI Division of Ser. No. US 1999-416901, filed on 13 Oct 1999

Continuation-in-part of Ser. No. US 1999-404133, filed on 23 Sep 1999

Continuation-in-part of Ser. No. WO 1999-US20881, filed on 23 Sep 1999

PRAI US 1999-155493P 19990923 (60)
US 1998-101594P 19980924 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Kunz, Gary L.; Assistant Examiner: Turner, Sharon
LREP Marshall, Gerstein & Borun
CLMN Number of Claims: 19
ECL Exemplary Claim: 1
DRWN 18 Drawing Figure(s); 18 Drawing Page(s)
LN.CNT 5651

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides the enzyme and enzymatic procedures for cleaving the .beta. secretase cleavage site of the APP protein and associated nucleic acids, peptides, vectors, cells and cell isolates and assays. The invention further provides a modified APP protein and associated nucleic acids, peptides, vectors, cells, and cell isolates, and assays that are particularly useful for identifying candidate therapeutics for treatment or prevention of Alzheimer's disease.

L10 ANSWER 8 OF 28 USPATFULL

AN 2002:181834 USPATFULL

TI Starch synthase polynucleotides and their use in the production of new starches

IN Singletary, George W., Ankeny, IA, United States

Zhou, Lan, Johnston, IA, United States

PA Pioneer Hi-Bred International, Inc., Des Moines, IA, United States (U.S. corporation)

PI US 6423886 B1 20020723

AI US 1999-388743 19990902 (9)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Fox, David T.

LREP Pioneer Hi-Bred International, Inc.

CLMN Number of Claims: 56

ECL Exemplary Claim: 3,4

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

LN.CNT 3349

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated nucleic acids and their encoded proteins that are involved in starch biosynthesis. The invention further provides recombinant expression cassettes, host cells, transgenic plants, and antibody compositions. The present invention provides methods and compositions relating to altering the amount and/or morphology of starch in plants.

L10 ANSWER 9 OF 28 USPATFULL

AN 2002:175286 USPATFULL

TI Alzheimer's disease secretase, APP substrates therefor, and uses thereof

IN Gurney, Mark E., Grand Rapids, MI, United States

Bienkowski, Michael J., Portage, MI, United States

Heinrikson, Robert L., Plainwell, MI, United States

Parodi, Luis A., Stockholm, SWEDEN

Yan, Riqiang, Kalamazoo, MI, United States

PA Pharmacia & Upjohn Company, Kalamazoo, MI, United States (U.S. corporation)

PI US 6420534 B1 20020716

AI US 2000-548372 20000412 (9)

RLI Division of Ser. No. US 1999-416901, filed on 13 Oct 1999

Continuation-in-part of Ser. No. US 1999-404133, filed on 23 Sep 1999

Continuation-in-part of Ser. No. WO 1999-US20881, filed on 23 Sep 1999

PRAI US 1999-155493P 19990923 (60)

US 1998-101594P 19980924 (60)

DT Utility
FS GRANTED
EXNAM Primary Examiner: Kunz, Gary L.; Assistant Examiner: Turner, Sharon
LREP Marshall, Gerstein, & Borun
CLMN Number of Claims: 8
ECL Exemplary Claim: 1
DRWN 18 Drawing Figure(s); 18 Drawing Page(s)
LN.CNT 5653

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides the enzyme and enzymatic procedures for cleaving the .beta. secretase cleavage site of the APP protein and associated nucleic acids, peptides, vectors, cells and cell isolates and assays. The invention further provides a modified APP protein and associated nucleic acids, peptides, vectors, cells, and cell isolates, and assays that are particularly useful for identifying candidate therapeutics for treatment or prevention of Alzheimer's disease.

L10 ANSWER 10 OF 28 USPATFULL

AN 2002:157035 USPATFULL

TI Alzheimer's disease secretase, APP substrates therefor, and uses therefor

IN Gurney, Mark E., Reykjavik, ICELAND
Bienkowski, Michael J., Portage, MI, UNITED STATES
Heinrikson, Robert L., Plainwell, MI, UNITED STATES
Parodi, Luis A., Stockholm, SWEDEN
Yan, Riqiang, Kalamazoo, MI, UNITED STATES

PI US 2002081634 A1 20020627

AI US 2001-681442 A1 20010405 (9)

RLI Continuation of Ser. No. US 1999-416901, filed on 13 Oct 1999, PENDING
Continuation-in-part of Ser. No. US 1999-404133, filed on 23 Sep 1999,
PENDING Continuation-in-part of Ser. No. WO 1999-US20881, filed on 23
Sep 1999, UNKNOWN

PRAI US 1999-155493P 19990923 (60)

US 1998-101594P 19980924 (60)

US 1998-101594P 19980924 (60)

DT Utility

FS APPLICATION

LREP MARSHALL, O'TOOLE, GERSTEIN, MURRAY & BORUN, 6300 SEARS TOWER, 233 SOUTH
WACKER DRIVE, CHICAGO, IL, 60606-6402

CLMN Number of Claims: 28

ECL Exemplary Claim: 1

DRWN 18 Drawing Page(s)

LN.CNT 5573

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides the enzyme and enzymatic procedures for cleaving the .beta. secretase cleavage site of the APP protein and associated nucleic acids, peptides, vectors, cells and cell isolates and assays. The invention further provides a modified APP protein and associated nucleic acids, peptides, vectors, cells, and cell isolates, and assays that are particularly useful for identifying candidate therapeutics for treatment or prevention of Alzheimer's disease.

L10 ANSWER 11 OF 28 USPATFULL

AN 2002:144102 USPATFULL

TI Helical cytokine zalp33

IN Conklin, Darrell C., Seattle, WA, United States
Gao, Zeren, Redmond, WA, United States

PA ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

PI US 6406888 B1 20020618

AI US 2000-593995 20000614 (9)

PRAI US 1999-139121P 19990614 (60)

DT Utility

FS GRANTED
EXNAM Primary Examiner: Spector, Lorraine; Assistant Examiner: Jiang, Dong
LREP Parker, Gary E.
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN 5 Drawing Figure(s); 5 Drawing Page(s)
LN.CNT 2391

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel cytokine polypeptides, materials and methods for making them, and method of use are disclosed. The polypeptides comprise at least nine contiguous amino acid residues of SEQ ID NO:2 or SEQ ID NO:4, and may be prepared as polypeptide fusions comprise heterologous sequences, such as affinity tags. The polypeptides and polynucleotides encoding them may be used within a variety of therapeutic, diagnostic, and research applications.

L10 ANSWER 12 OF 28 USPATFULL

AN 2002:126307 USPATFULL

TI Alzheimer's disease secretase, APP substrates therefor, and uses therefor

IN Gurney, Mark E., Grand Rapids, MI, UNITED STATES
Bienkowski, Michael J., Portage, MI, UNITED STATES
Heinrikson, Robert L., Plainwell, MI, UNITED STATES
Parodi, Luis A., Stockholm, SWEDEN

PA Yan, Riqiang, Kalamazoo, MI, UNITED STATES
Pharmacia & Upjohn Company (U.S. corporation)

PI US 2002064819 A1 20020530

AI US 2001-794925 A1 20010227 (9)

RLI Continuation of Ser. No. US 1999-416901, filed on 13 Oct 1999, PENDING
Continuation of Ser. No. US 1999-404133, filed on 23 Sep 1999, PENDING
Continuation of Ser. No. WO 1999-US20881, filed on 23 Sep 1999, UNKNOWN

PRAI US 1999-155493P 19990923 (60)

US 1998-101594P 19980924 (60)

DT Utility

FS APPLICATION

LREP MARSHALL, O'TOOLE, GERSTEIN, MURRAY & BORUN, 6300 SEARS TOWER, 233 SOUTH WACKER DRIVE, CHICAGO, IL, 60606-6402

CLMN Number of Claims: 23

ECL Exemplary Claim: 1

DRWN 20 Drawing Page(s)

LN.CNT 5465

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides the enzyme and enzymatic procedures for cleaving the .beta. secretase cleavage site of the APP protein and associated nucleic acids, peptides, vectors, cells and cell isolates and assays. The invention further provides a modified APP protein and associated nucleic acids, peptides, vectors, cells, and cell isolates, and assays that are particularly useful for identifying candidate therapeutics for treatment or prevention of Alzheimer's disease.

L10 ANSWER 13 OF 28 USPATFULL

AN 2002:119569 USPATFULL

TI Mammalian dishevelled-associated proteins

IN Yan, Dong, Emeryville, CA, UNITED STATES
Williams, Lewis T., Mill Valley, CA, UNITED STATES

PI US 2002061552 A1 20020523

AI US 2000-730989 A1 20001205 (9)

PRAI US 1999-172434P 19991217 (60)

DT Utility

FS APPLICATION

LREP Chiron Corporation, Intellectual Property - R440, P.O. Box 8097, Emeryville, CA, 94662-8097

CLMN Number of Claims: 33
ECL Exemplary Claim: 1
DRWN 13 Drawing Page(s)
LN.CNT 2400

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Two novel proteins that interact with mammalian Dishevelled protein, and the corresponding polynucleotide sequences encoding the proteins, are disclosed. The proteins are referred to as mNkd and DAP 1A. mNkd is expressed at a higher level in mammalian lung tissues than in other mammalian tissues. mNkd inhibits Wnt signaling, and is an activator of the JNK pathway.

L10 ANSWER 14 OF 28 USPATFULL

AN 2002:109248 USPATFULL

TI Maize orthologues of bacterial RecA proteins

IN Mahajan, Pramod B., Urbandale, IA, United States

Shi, Jinrui, Johnston, IA, United States

Baszczynski, Christopher, Urbandale, IA, United States

McElver, John, Durham, NC, United States

Bowen, Benjamin, Hayward, CA, United States

PA Pioneer Hi-Bred International, Inc., Des Moines, IA, United States (U.S. corporation)

PI US 6388169 B1 20020514

AI US 1999-310363 19990512 (9)

PRAI US 1998-99765P 19980910 (60)

US 1998-96492P 19980814 (60)

US 1998-88529P 19980608 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Bui, Phuong T.; Assistant Examiner: Ibrahim, Medina A.

LREP Pioneer Hi-Bred International, Inc.

CLMN Number of Claims: 21

ECL Exemplary Claim: 1,15

DRWN 0 Drawing Figure(s); 0 Drawing Page(s)

LN.CNT 4093

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides methods and compositions relating to altering RecA content and/or composition of plants. The invention provides isolated nucleic acids and their encoded proteins that are homologous to bacterial RecA genes. The invention further provides recombinant expression cassettes, host cells, transgenic plants, and antibody compositions. The plant recA polynucleotides and their cognate products are useful for gene targeting in maize and other plant species and for use as a molecular marker.

L10 ANSWER 15 OF 28 USPATFULL

AN 2002:66664 USPATFULL

TI Alzheimer's disease secretase, APP substrates therefor, and uses therefor

IN Gurney, Mark E., Grand Rapids, MI, UNITED STATES

Bienkowski, Michael J., Portage, MI, UNITED STATES

Heinrikson, Robert L., Plainwell, MI, UNITED STATES

Parodi, Luis A., Stockholm, SWEDEN

Yan, Riqiang, Kalamazoo, MI, UNITED STATES

PA Pharmacia & Upjohn Company (U.S. corporation)

PI US 2002037315 A1 20020328

AI US 2001-794748 A1 20010227 (9)

RLI Continuation of Ser. No. US 1999-416901, filed on 13 Oct 1999, PENDING

Continuation of Ser. No. US 1999-404133, filed on 23 Sep 1999, PENDING

Continuation of Ser. No. WO 1999-US20881, filed on 23 Sep 1999, UNKNOWN

PRAI US 1999-155493P 19990923 (60)

US 1998-101594P 19980924 (60)

DT Utility
FS APPLICATION
LREP MARSHALL, O'TOOLE, GERSTEIN, MURRAY & BORUN, 6300 SEARS TOWER, 233 SOUTH
WACKER DRIVE, CHICAGO, IL, 60606-6402
CLMN Number of Claims: 9
ECL Exemplary Claim: 1
DRWN 20 Drawing Page(s)
LN.CNT 5440

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides the enzyme and enzymatic procedures for cleaving the .beta. secretase cleavage site of the APP protein and associated nucleic acids, peptides, vectors, cells and cell isolates and assays. The invention further provides a modified APP protein and associated nucleic acids, peptides, vectors, cells, and cell isolates, and assays that are particularly useful for identifying candidate therapeutics for treatment or prevention of Alzheimer's disease.

L10 ANSWER 16 OF 28 USPATFULL

AN 2002:54665 USPATFULL

TI Glucan-containing compositions and paper

IN Nichols, Scott E., Johnston, IA, UNITED STATES

PI US 2002031826 A1 20020314

US 6465203 B2 20021015

AI US 2000-740274 A1 20001219 (9)

RLI Division of Ser. No. US 1998-210361, filed on 11 Dec 1998, PENDING
Continuation-in-part of Ser. No. US 1998-9620, filed on 20 Jan 1998,
GRANTED, Pat. No. US 6127603 Continuation-in-part of Ser. No. US
1998-7999, filed on 16 Jan 1998, GRANTED, Pat. No. US 6087559
Continuation-in-part of Ser. No. US 1998-8172, filed on 16 Jan 1998,
GRANTED, Pat. No. US 6127602 Continuation of Ser. No. US 1995-485243,
filed on 7 Jun 1995, GRANTED, Pat. No. US 5712107 Continuation of Ser.
No. US 1995-478704, filed on 7 Jun 1995, ABANDONED Continuation of Ser.
No. US 1995-482711, filed on 7 Jun 1995, ABANDONED

DT Utility

FS APPLICATION

LREP Catherine D. Brooke, Patent Agent, 7100 N.W. 62nd Avenue, P.O. Box 1000,
Johnston, IA, 50131-1000

CLMN Number of Claims: 34

ECL Exemplary Claim: 15

DRWN No Drawings

LN.CNT 3136

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides methods of making paper, utilizing glucans, produced by the glucosyltransferase B, C or D enzyme of the species Streptococcus mutans, instead of modified starches. The present glucans are functionally similar to currently utilized modified starches and are particularly useful in the coating step of paper manufacture. The present glucans also exhibit thermoplastic properties and impart gloss to the paper during the coating step.

L10 ANSWER 17 OF 28 USPATFULL

AN 2002:16855 USPATFULL

TI Mammary gland chemokine

IN Labow, Mark A., Westfield, NJ, UNITED STATES

Mickanin, Craig Stephen, Basking Ridge, NJ, UNITED STATES

Bhatia, Umesh, Los Gatos, CA, UNITED STATES

PI US 2002009735 A1 20020124

AI US 2001-813492 A1 20010321 (9)

PRAI US 2000-191654P 20000323 (60)

DT Utility

FS APPLICATION

LREP THOMAS HOXIE, NOVARTIS CORPORATION, PATENT AND TRADEMARK DEPT, 564

MORRIS AVENUE, SUMMIT, NJ, 079011027
CLMN Number of Claims: 5
ECL Exemplary Claim: 1
DRWN 2 Drawing Page(s)
LN.CNT 694

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides various methods for utilizing a polypeptide encoding a chemokine (MEC) and a polypeptide translated therefrom. The MEC chemokine is underexpressed in tumors, making the chemokine a useful marker for diagnosis and prognosis of adverse bodily reactions.

L10 ANSWER 18 OF 28 USPATFULL

AN 2001:197264 USPATFULL
TI Maize aquaporins and uses thereof
IN Jung, Rudolf, Des Moines, IA, United States
Chauumont, Francois, Louvain-la-Neuve, Belgium
Chrispeels, Maarten, La Jolla, CA, United States
PA Pioneer Hi-Bred International, Inc., Des Moines, IA, United States (U.S. corporation)
The Regents of the University of California, Oakland, CA, United States (U.S. corporation)
PI US 6313376 B1 20011106
AI US 1999-372448 19990811 (9)
PRAI US 1998-96627P 19980814 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Fox, David T.; Assistant Examiner: Ibrahim, Medina A.
LREP Pioneer Hi-Bred International, Inc.
CLMN Number of Claims: 40
ECL Exemplary Claim: 1,4,5,8,13
DRWN No Drawings
LN.CNT 3369

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated maize aquaporin nucleic acids and their encoded proteins. The present invention provides methods and compositions relating to altering aquaporin concentration and/or composition of plants. The invention further provides recombinant expression cassettes, host cells, transgenic plants, and antibody compositions.

L10 ANSWER 19 OF 28 USPATFULL

AN 2001:197263 USPATFULL
TI Maize aquaporins and uses thereof
IN Jung, Rudolf, Des Moines, IA, United States
Barrieu, Francois, Bordeaux, France
PA Pioneer Hi-Bred International, Inc., Des Moines, IA, United States (U.S. corporation)
PI US 6313375 B1 20011106
AI US 1999-372422 19990811 (9)
PRAI US 1998-98692P 19980813 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Fox, David T.; Assistant Examiner: Ibrahim, Medina A.
LREP Pioneer Hi-Bred International, Inc.
CLMN Number of Claims: 40
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 3234

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated maize aquaporin nucleic acids and their encoded proteins. The present invention provides methods and

compositions relating to altering aquaporin concentration and/or composition of plants. The invention further provides recombinant expression cassettes, host cells, transgenic plants, and antibody compositions.

L10 ANSWER 20 OF 28 USPATFULL

AN 2001:155460 USPATFULL

TI Alzheimer's disease secretase, APP substrates therefor, and uses therefor

IN Gurney, Mark E., Grand Rapids, MI, United States
Bienkowski, Michael J., Portage, MI, United States
Heinrikson, Robert L., Plainwell, MI, United States
Parodi, Luis A., Stockholm, Sweden
Yan, Riqiang, Kalamazoo, MI, United States

PA Pharmacia & Upjohn Company (U.S. corporation)

PI US 2001021391 A1 20010913

AI US 2001-794743 A1 20010227 (9)

RLI Continuation of Ser. No. US 1999-416901, filed on 13 Oct 1999, PENDING
Continuation of Ser. No. US 1999-404133, filed on 23 Sep 1999, PENDING
Continuation of Ser. No. WO 1999-US20881, filed on 23 Sep 1999, UNKNOWN

PRAI US 1999-155493P 19990923 (60)

US 1998-101594P 19980924 (60)

DT Utility

FS APPLICATION

LREP MARSHALL, O'TOOLE, GERSTEIN, MURRAY & BORUN, 6300 SEARS TOWER, 233 SOUTH
WACKER DRIVE, CHICAGO, IL, 60606-6402

CLMN Number of Claims: 16

ECL Exemplary Claim: 1

DRWN 20 Drawing Page(s)

LN.CNT 2962

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides the enzyme and enzymatic procedures for cleaving the .beta. secretase cleavage site of the APP protein and associated nucleic acids, peptides, vectors, cells and cell isolates and assays. The invention further provides a modified APP protein and associated nucleic acids, peptides, vectors, cells, and cell isolates, and assays that are particularly useful for identifying candidate therapeutics for treatment or prevention of Alzheimer's disease.

L10 ANSWER 21 OF 28 USPATFULL

AN 2001:147690 USPATFULL

TI Substitutes for modified starch and latexes in paper manufacture

IN Nichols, Scott E., Johnston, IA, United States

PA Pioneer Hi-Bred International, Inc., Des Moines, IA, United States (U.S. corporation)

PI US 6284479 B1 20010904

AI US 1998-210361 19981211 (9)

RLI Continuation-in-part of Ser. No. US 1998-8172, filed on 16 Jan 1998
Division of Ser. No. US 1995-482711, filed on 7 Jun 1995, now abandoned
Continuation-in-part of Ser. No. US 1998-9620, filed on 20 Jan 1998
Continuation of Ser. No. US 1995-485243, filed on 7 Jun 1995, now patented, Pat. No. US 5712107
Continuation-in-part of Ser. No. US 1998-7999, filed on 16 Jan 1998
Division of Ser. No. US 1995-478704, filed on 7 Jun 1995, now abandoned

DT Utility

FS GRANTED

EXNAM Primary Examiner: Leary, Louise N.

LREP Pioneer Hi-Bred International, Inc.

CLMN Number of Claims: 14

ECL Exemplary Claim: 1

DRWN 5 Drawing Figure(s); 4 Drawing Page(s)

LN.CNT 1789

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides methods of making paper, utilizing glucans, produced by the glucosyltransferase B, C or D enzyme of the species *Streptococcus mutans*, instead of modified starches. The present glucans are functionally similar to currently utilized modified starches and are particularly useful in the coating step of paper manufacture. The present glucans also exhibit thermoplastic properties and impart gloss to the paper during the coating step.

L10 ANSWER 22 OF 28 USPATFULL

AN 2001:145073 USPATFULL

TI Alzheimer's disease secretase, APP substrates therefor, and uses therefor

IN Gurney, Mark E., Grand Rapids, MI, United States
Bienkowski, Michael J., Portage, MI, United States
Heinrikson, Robert L., Plainwell, MI, United States
Parodi, Luis A., Stockholm, Sweden
Yan, Riqiang, Kalamazoo, MI, United States

PA Pharmacia & Upjohn Company (U.S. corporation)

PI US 2001018208 A1 20010830

AI US 2001-795847 A1 20010228 (9)

RLI Continuation of Ser. No. US 1999-416901, filed on 13 Oct 1999, PENDING
Continuation of Ser. No. US 1999-404133, filed on 23 Sep 1999, PENDING
Continuation of Ser. No. WO 1999-US20881, filed on 23 Sep 1999, UNKNOWN

PRAI US 1999-155493P 19990923 (60)

US 1998-101594P 19980924 (60)

DT Utility

FS APPLICATION

LREP MARSHALL, O'TOOLE, GERSTEIN, MURRAY & BORUN, 6300 SEARS TOWER, 233 SOUTH WACKER DRIVE, CHICAGO, IL, 60606-6402

CLMN Number of Claims: 44

ECL Exemplary Claim: 1

DRWN 20 Drawing Page(s)

LN.CNT 2995

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides the enzyme and enzymatic procedures for cleaving the .beta. secretase cleavage site of the APP protein and associated nucleic acids, peptides, vectors, cells and cell isolates and assays. The invention further provides a modified APP protein and associated nucleic acids, peptides, vectors, cells, and cell isolates, and assays that are particularly useful for identifying candidate therapeutics for treatment or prevention of Alzheimer's disease.

L10 ANSWER 23 OF 28 USPATFULL

AN 2001:139282 USPATFULL

TI Alzheimer's disease secretase, APP substrates therefor, and uses therefor

IN Gurney, Mark E., Grand Rapids, MI, United States
Bienkowski, Michael J., Portage, MI, United States
Heinrikson, Robert L., Plainwell, MI, United States
Parodi, Luis A., Stockholm, Sweden
Yan, Riqiang, Kalamazoo, MI, United States

PA Pharmacia & Upjohn Company (U.S. corporation)

PI US 2001016324 A1 20010823

AI US 2001-794927 A1 20010227 (9)

RLI Continuation of Ser. No. US 1999-416901, filed on 13 Oct 1999, PENDING
Continuation of Ser. No. US 1999-404133, filed on 23 Sep 1999, PENDING
Continuation of Ser. No. WO 1999-US20881, filed on 23 Sep 1999, UNKNOWN

PRAI US 1999-155493P 19990923 (60)

US 1998-101594P 19980924 (60)

DT Utility

FS APPLICATION

LREP MARSHALL, O'TOOLE, GERSTEIN, MURRAY & BORUN, 6300 SEARS TOWER, 233 SOUTH
WACKER DRIVE, CHICAGO, IL, 60606-6402
CLMN Number of Claims: 28
ECL Exemplary Claim: 1
DRWN 20 Drawing Page(s)
LN.CNT 5574

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides the enzyme and enzymatic procedures for
cleaving the .beta. secretase cleavage site of the APP protein and
associated nucleic acids, peptides, vectors, cells and cell isolates and
assays. The invention further provides a modified APP protein and
associated nucleic acids, peptides, vectors, cells, and cell isolates,
and assays that are particularly useful for identifying candidate
therapeutics for treatment or prevention of Alzheimer's disease.

L10 ANSWER 24 OF 28 USPATFULL

AN 2001:117241 USPATFULL

TI Pyruvate dehydrogenase kinase polynucleotides, polypeptides and uses
thereof

IN Randall, Douglas D., Columbia, MO, United States

Thelen, Jay J., Columbia, MO, United States

Miernyk, Jan A., Peoria, IL, United States

Muszynski, Michael G., Des Moines, IA, United States

Sewalt, Vincent J. H., West Des Moines, IA, United States

PA Pioneer Hi-Bred International, Inc., Des Moines, IA, United States (U.S.
corporation)

University of Missouri, Columbia, MO, United States (U.S. corporation)

PI US 6265636 B1 20010724

AI US 1999-333423 19990615 (9)

PRAI US 1998-89998P 19980619 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Fox, David T.; Assistant Examiner: Ibrahim, Medina A.

LREP Pioneer Hi-Bred International, Inc.

CLMN Number of Claims: 52

ECL Exemplary Claim: 12,19

DRWN No Drawings

LN.CNT 3517

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides methods and compositions relating to altering
carbohydrate metabolism and/or composition of plants. The invention
provides isolated nucleic acids and their encoded proteins, expression
cassettes, host cells, transgenic plants, and antibody compositions.

L10 ANSWER 25 OF 28 USPATFULL

AN 2001:48312 USPATFULL

TI Hm2 cDNA from maize encoding disease resistance polypeptide

IN Briggs, Steven P., DelMar, CA, United States

Johal, Gurmukh, Columbia, MO, United States

Multani, Dilbag Singh, Columbia, MO, United States

PA Pioneer Hi-Bred International, Inc., Des Moines, IA, United States (U.S.
corporation)

The Curators of the University of Missouri, Columbia, MO, United States
(U.S. corporation)

PI US 6211440 B1 20010403

AI US 1999-231227 19990114 (9)

PRAI US 1998-71684P 19980116 (60)

DT Utility

FS Granted

EXNAM Primary Examiner: Nelson, Amy J.

LREP Pioneer Hi-Bred International, Inc.

CLMN Number of Claims: 14

ECL Exemplary Claim: 2

DRWN No Drawings

LN.CNT 3025

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated Hm2 nucleic acids. The invention further provides expression cassettes, transferred host cells, and transgenic plants. Also, the invention provides methods of imparting disease resistance to plants susceptible to fungal pathogens, which utilize cyclic tetrapeptide toxins.

L10 ANSWER 26 OF 28 USPATFULL

AN 2001:29788 USPATFULL

TI Alteration of hemicellulose concentration in plants

IN Dhugga, Kanwarpal S., Johnston, IA, United States

Nichols, Scott E., Johnston, IA, United States

Fallis, Patricia Lynne, Polk City, IA, United States

PA Pioneer Hi-Bred International, Inc., Des Moines, IA, United States (U.S. corporation)

PI US 6194638 B1 20010227

AI US 1999-338671 19990622 (9)

PRAI US 1998-90416P 19980623 (60)

DT Utility

FS Granted

EXNAM Primary Examiner: Fox, David T.; Assistant Examiner: Ibrahim, Medina A

LREP Pioneer Hi-Bred International, Inc.

CLMN Number of Claims: 20

ECL Exemplary Claim: 1,11

DRWN No Drawings

LN.CNT 3616

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated Rgp nucleic acids and their encoded proteins. The present invention provides methods and compositions relating to altering RGP levels in plants. The invention further provides recombinant expression cassettes, host cells, transgenic plants, and antibody compositions.

L10 ANSWER 27 OF 28 USPATFULL

AN 83:45197 USPATFULL

TI Immobilized antibody or antigen for immunoassay

IN Cole, Francis X., Stow, MA, United States

Van Voorhis, Deborah M., Watertown, MA, United States

PA Millipore Corporation, Bedford, MA, United States (U.S. corporation)

PI US 4407943 19831004

AI US 1980-129671 19800313 (6)

RLI Continuation of Ser. No. US 1979-15724, filed on 27 Feb 1979, now abandoned which is a continuation of Ser. No. US 1978-924561, filed on 14 Jul 1978, now abandoned which is a continuation of Ser. No. US 1976-751099, filed on 16 Dec 1976, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: Naff, David M.

LREP Prashker, David, Cook, Paul J.

CLMN Number of Claims: 6

ECL Exemplary Claim: 1

DRWN 4 Drawing Figure(s); 2 Drawing Page(s)

LN.CNT 791

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An antigen or antibody and an immunochemically neutral protein are immobilized in two stages on a microporous membrane coated with a protein such as zein or collagen. Immobilized antigen to *Toxoplasma gondii* is used in an immunoassay to detect the presence of antibody to *Toxoplasma gondii* in serum. Antibody that becomes bound to the

immobilized antigen is detected with an antibody- enzyme conjugate. Immobilizing the immunochemically netural protein on the membrane in a second stage immobilization step minimizes nonspecific binding during the immunoassay.

L10 ANSWER 28 OF 28 WPINDEX (C) 2003 THOMSON DERWENT

AN 2002-599469 [64] WPINDEX

DNC C2002-169300

TI Detecting activity of nucleic acid modification **enzyme**, by annealing **substrate** and labeled oligonucleotide, breaking adjacent ends, adding enzyme, incubating mixture and measuring fluorescence polarization signal.

DC B07 C07 D16

IN BAUER, M W; BERNASCONI, P; DUTCHER, R C

PA (SYGN) SYNGENTA PARTICIPATIONS AG

CYC 98

PI WO 2002046453 A2 20020613 (200264)* EN 16p

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NL OA PT SD SE SL SZ TR TZ UG ZM ZW

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AU 2002027982 A 20020618 (200266)

ADT WO 2002046453 A2 WO 2001-EP14123 20011203; AU 2002027982 A AU 2002-27982 20011203

FDT AU 2002027982 A Based on WO 200246453

PRAI US 2000-251230P 20001205

AB WO 200246453 A UPAB: 20021007

NOVELTY - Detecting activity of nucleic acid modification **enzyme** involves providing **substrate** having nucleic acid template and labeled oligonucleotide, annealing, breaking adjacent ends of template and labeled oligonucleotide, mixing **substrate** with **enzyme** to form reaction mixture, incubating, adding stop reagent, measuring fluorescence polarization signal (FPS) of the mixture, and comparing the signal of the mixture to the standard FPS.

DETAILED DESCRIPTION - Detecting the activity of nucleic acid modification enzymes, involves providing a substrate comprising template and a labeled oligonucleotide, where a portion of the template is complimentary to the labeled oligonucleotide and is annealed to it, providing a break between the adjacent ends of the template and the labeled oligonucleotide, mixing the substrate with an effective amount of nucleic acid modification enzyme to form a reaction mixture, incubating for a time sufficient for the enzyme to act on the substrate, optionally, adding a stop reagent, measuring the fluorescence polarization signal, and comparing the fluorescence polarization signal of the mixture to a standard fluorescence polarization signal.

An INDEPENDENT CLAIM is also included for a kit for detecting the activity of nucleic acid modification **enzymes** and its **inhibitors** comprising a substrate comprising template and a fluorescently labeled oligonucleotide, where a portion of the template is complimentary to the labeled oligonucleotide and is annealed to it and a break is located between the adjacent ends of the template and the labeled oligonucleotide, a support for retaining the substrate, an effective amount of nucleic acid modification enzyme for mixing with the substrate in the support to form a reaction mixture, optionally, a stop reagent for adding to the mixture, and device for measuring the fluorescence polarization signal of the mixture.

USE - The method is useful for detecting the activity of nucleic acid modification enzymes e.g. ligase or helicase (claimed); for screening crop protection chemicals such as herbicides, insecticides or fungicides, antibiotics, anti-viral agents, anti-tumor agents, or compounds, which

modulate and/or regulate the function of clinically important proteins, for identifying inhibitors of nucleic acid modification enzyme, for measuring DNA ligase and helicase activity as well as the effect of inhibitors on such activities, using fluorescence polarization.

ADVANTAGE - The method and **kit** are well suited for high-throughput assays. Use of fluorescein as the fluorescent label, the use of specific oligos or several oligos, the biotin/avidin as ligand for affecting a change in mass of an oligonucleotide or the set of annealed oligonucleotides, are avoided.

Dwg.0/0

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      Vande Woude; George, Ada, MI, US
      Webb; Craig, Rockford, MI, US
IN   Duesbery Nicholas; Leppla Stephen; Vande Woude George; Webb Craig
PAF  Unassigned
PA   Unassigned Or Assigned To Individual (68000)
AG   TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH
      FLOOR, SAN FRANCISCO, CA, 94111-3834, US
PI   US 2002187521  A1  20021212
AI   US 2002-93200          20020305
RLI  US 2000-623104          20001213 DIVISION          ABANDONED
      WO 1999-US7126          19990331 Section 371 PCT Filing PENDING
PRAI US 1998-80330P          19980401 (Provisional)
FI   US 2002187521          20021212
DT   Utility; Patent Application - First Publication          **
      00001000
FS   CHEMICAL
      APPLICATION
CLMN 61
GI   1 Figure(s).
      FIG. 1: Alignment of the N-terminal amino acids of MAPKK 1-4. The
      N-terminal 60 amino acids of Xenopus (X) MAPKK1, mouse (M) MAPKK1, as
      well as human (H) MAPKK 1-4 were aligned using the Multiple Sequence
      Alignment tool of the Institute for Biomedical Computing, Washington
      University, St. Louis, accessible through the internet
      (http://www.ibc.wustl.edu/ibc/msa.html).
AB   The present invention relates to in vitro and ex vivo methods of
      screening for modulators, homologues, and mimetics of lethal factor
      mitogen activated protein kinase kinase (MAPKK) protease activity, as
      well as methods of treating cancer by administering LF to transformed
      cells.

L3  ANSWER 2 OF 34  USPATFULL
AN   2002:310778  USPATFULL
TI   Anthrax lethal factor is a MAPK kinase protease
IN   Duesbery, Nicholas, Grand Rapids, MI, United States
      Webb, Craig, Rockford, MI, United States
      Leppla, Stephen, Bethesda, MD, United States
      Woude, George Vande, Ada, MI, United States
PA   The United States of America as represented by the Department of Health
      and Human Services, Washington, DC, United States (U.S. government)
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PI US 6485925 B1 20021126
WO 9950439 19991007
AI US 2000-623104 20001213 (9)
WO 1999-US7126 19990331
20001213 PCT 371 date
PRAI US 1998-80330P 19980401 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Prouty, Rebecca E.; Assistant Examiner: Walicka, M.
LREP Townsend and Townsend and Crew LLP
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 1 Drawing Figure(s); 1 Drawing Page(s)
LN.CNT 2373

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to in vitro and ex vivo methods of screening for modulators, homologues, and mimetics of lethal factor mitogen activated protein kinase kinase (MAPKK) protease activity, as well as methods of treating cancer by administering LF to transformed cells.

L3 ANSWER 3 OF 34 USPATFULL

AN 2002:144232 USPATFULL

TI Methods for altering hair growth and hair pigmentation by apoptosis in the follicular papillae and compositions therefor

IN Seiberg, Miri, Princeton, NJ, United States

Shapiro, Stanley S., Livingston, NJ, United States

Cauwenbergh, Gerard F. M. J., Plainsboro, NJ, United States

Wisniewski, Stephen J., Doylestown, PA, United States

PA Johnson & Johnson Consumer Companies, Inc., Skillman, NJ, United States (U.S. corporation)

PI US 6407056 B1 20020618

AI US 1997-882322 19970625 (8)

PRAI US 1996-21629P 19960712 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Jones, Dwayne C.; Assistant Examiner: Delacroix-Muirheid, C.

CLMN Number of Claims: 17

ECL Exemplary Claim: 1

DRWN 10 Drawing Figure(s); 5 Drawing Page(s)

LN.CNT 938

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention utilizes serine proteases and their ability to induce programmed cell death and apoptosis in the follicular papillae to affect changes in mammalian hair growth and hair pigmentation. Also described are compositions which have an agent with a portion of similar structure to a portion of the trypsin molecule, allowing said agent to induce programmed cell death and apoptosis in the same manner as trypsin.

L3 ANSWER 4 OF 34 USPATFULL

AN 2001:71331 USPATFULL

TI Flea serine protease nucleic acid molecules and uses thereof

IN Grieve, Robert B., Windsor, CO, United States

Rushlow, Keith E., Ft. Collins, CO, United States

Hunter, Shirley Wu, Ft. Collins, CO, United States

Frank, Glenn R., Wellington, CO, United States

Stiegler, Gary L., Ft. Collins, CO, United States

Gaines, Patrick J., Ft. Collins, CO, United States

Silver, Gary, Ft. Collins, CO, United States

PA Heska Corporation, Ft. Collins, CO, United States (U.S. corporation)

PI US 6232096 B1 20010515
AI US 1997-906613 19970805 (8)
RLI Division of Ser. No. US 1996-639075, filed on 24 Apr 1996
Continuation-in-part of Ser. No. US 1995-484211, filed on 7 Jun 1995,
now patented, Pat. No. US 5972645, issued on 26 Oct 1999
Continuation-in-part of Ser. No. US 1995-482130, filed on 7 Jun 1995,
now patented, Pat. No. US 5962257, issued on 5 Oct 1999
Continuation-in-part of Ser. No. US 1995-485443, filed on 7 Jun 1995
Continuation-in-part of Ser. No. US 1995-485455, filed on 7 Jun 1995,
now patented, Pat. No. US 5712143, issued on 27 Jan 1998
Continuation-in-part of Ser. No. US 1994-326773, filed on 18 Oct 1994,
now patented, Pat. No. US 5766609, issued on 16 Jun 1998
Continuation-in-part of Ser. No. US 1991-806482, filed on 13 Dec 1991,
now patented, Pat. No. US 5356622, issued on 18 Oct 1994, said Ser. No.
US 326773 And Ser. No. US 906613 Continuation-in-part of Ser. No. US
326773 Continuation-in-part of Ser. No. WO 1995-US14442, filed on 18 Oct
1995

DT Utility

FS Granted

EXNAM Primary Examiner: Allen, Marianne P.

LREP Sheridan Ross P.C.

CLMN Number of Claims: 8

ECL Exemplary Claim: 1

DRWN 13 Drawing Figure(s); 12 Drawing Page(s)

LN.CNT 4402

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to flea serine protease proteins,
aminopeptidase proteins and flea cysteine protease proteins; to flea
serine protease, aminopeptidase and cysteine protease nucleic acid
molecules, including those that encode such proteins; to antibodies
raised against such proteins; and to compounds that inhibit flea serine
protease, aminopeptidase and/or cysteine protease activities. The
present invention also includes methods to obtain such proteins, nucleic
acid molecules, antibodies, and inhibitors. Also included in the present
invention are therapeutic compositions comprising such proteins, nucleic
acid molecules, antibodies, and/or inhibitors as well as the use of such
therapeutic compositions to protect a host animal from flea infestation.

L3 ANSWER 5 OF 34 USPATFULL

AN 2001:51803 USPATFULL

TI Flea leucine aminopeptidase nucleic acid molecules and uses thereof

IN Grieve, Robert B., Windsor, CO, United States

Rushlow, Keith E., Ft. Collins, CO, United States

Hunter, Shirley Wu, Ft. Collins, CO, United States

Frank, Glenn R., Wellington, CO, United States

Stiegler, Gary L., Ft. Collins, CO, United States

PA Heska Corporation, Ft. Collins, CO, United States (U.S. corporation)

PI US 6214579 B1 20010410

AI US 1998-12692 19980123 (9)

RLI Continuation of Ser. No. US 1996-639075, filed on 24 Apr 1996
Continuation-in-part of Ser. No. US 1995-484211, filed on 7 Jun 1995,
now patented, Pat. No. US 5972645 Continuation-in-part of Ser. No. US
1995-482130, filed on 7 Jun 1995, now patented, Pat. No. US 5962257
Continuation-in-part of Ser. No. US 1995-485443, filed on 7 Jun 1995
Continuation-in-part of Ser. No. US 1995-485455, filed on 7 Jun 1995,
now patented, Pat. No. US 5712143 Continuation-in-part of Ser. No. US
1994-326773, filed on 18 Oct 1994, now patented, Pat. No. US 5766609
Continuation-in-part of Ser. No. US 806482, now patented, Pat. No. US
5356622

DT Utility

FS Granted

EXNAM Primary Examiner: Allen, Marianne P.

LREP Sheridan Ross P.C.
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN 13 Drawing Figure(s); 12 Drawing Page(s)
LN.CNT 4292

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to flea serine protease proteins, aminopeptidase proteins and flea cysteine protease proteins; to flea serine protease, aminopeptidase and cysteine protease nucleic acid molecules, including those that encode such proteins; to antibodies raised against such proteins; and to compounds that inhibit flea serine protease, aminopeptidase and/or cysteine protease activities. The present invention also includes methods to obtain such proteins, nucleic acid molecules, antibodies, and inhibitors. Also included in the present invention are therapeutic compositions comprising such proteins, nucleic acid molecules, antibodies, and/or inhibitors as well as the use of such therapeutic compositions to protect a host animal from flea infestation.

L3 ANSWER 6 OF 34 USPATFULL

AN 2001:40225 USPATFULL

TI Flea protease proteins, nucleic acid molecules, and uses thereof

IN Stiegler, Gary L., Ft. Collins, CO, United States

Gaines, Patrick J., Ft. Collins, CO, United States

PA Heska Corporation, Ft. Collins, CO, United States (U.S. corporation)

PI US 6204010 B1 20010320

AI US 1998-32215 19980227 (9)

RLI Continuation-in-part of Ser. No. US 1997-970995, filed on 14 Nov 1997

Continuation-in-part of Ser. No. WO 1997-US6121, filed on 24 Apr 1997

Continuation-in-part of Ser. No. US 1996-749699, filed on 15 Nov 1996

Continuation-in-part of Ser. No. US 1996-639075, filed on 24 Apr 1996

Continuation-in-part of Ser. No. US 1997-817795, filed on 1 Aug 1997

Continuation-in-part of Ser. No. WO 1995-US14442, filed on 18 Oct 1995

Continuation-in-part of Ser. No. US 1995-484211, filed on 7 Jun 1995,

now patented, Pat. No. US 5972645

DT Utility

FS Granted

EXNAM Primary Examiner: Allen, Marianne P.

LREP Sheridan Ross P.C.

CLMN Number of Claims: 14

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1959

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to flea serine protease proteins; to flea serine protease nucleic acid molecules, including those that encode such proteins; to antibodies raised against such proteins; and to compounds that inhibit flea serine protease activities. The present invention also includes methods to obtain such proteins, nucleic acid molecules, antibodies, and inhibitors. Also included in the present invention are therapeutic compositions comprising such proteins, nucleic acid molecules, antibodies, and/or inhibitors as well as the use of such therapeutic compositions to protect a host animal from flea infestation.

L3 ANSWER 7 OF 34 USPATFULL

AN 2001:14241 USPATFULL

TI Flea leucine aminopeptidase proteins and uses thereof

IN Grieve, Robert B., Windsor, CO, United States

Rushlow, Keith E., Ft. Collins, CO, United States

Hunter, Shirley Wu, Ft. Collins, CO, United States

Frank, Glenn R., Wellington, CO, United States

Stiegler, Gary L., Ft. Collins, CO, United States

PA Heska Corporation, Ft. Collins, CO, United States (U.S. corporation)

PI US 6180383 B1 20010130
AI US 1998-12431 19980123 (9)
RLI Continuation of Ser. No. US 1996-639075, filed on 24 Apr 1996
Continuation-in-part of Ser. No. US 1995-484211, filed on 7 Jun 1995,
now patented, Pat. No. US 5972645 Continuation-in-part of Ser. No. US
1995-482130, filed on 7 Jun 1995, now patented, Pat. No. US 5962257,
issued on 5 Oct 1999 Continuation-in-part of Ser. No. US 1995-485443,
filed on 7 Jun 1995 Continuation-in-part of Ser. No. US 1995-485455,
filed on 7 Jun 1995, now patented, Pat. No. US 5712143, issued on 27 Jan
1998 Continuation-in-part of Ser. No. US 1994-326773, filed on 18 Oct
1994, now patented, Pat. No. US 5766609, issued on 16 Jun 1998
Continuation-in-part of Ser. No. US 1991-806482, filed on 13 Dec 1991,
now patented, Pat. No. US 5356622, issued on 18 Oct 1994
Continuation-in-part of Ser. No. WO 1995-US14442, filed on 18 Oct 1995
DT Utility
FS Granted
EXNAM Primary Examiner: Allen, Marianne P.
LREP Sheridan Ross, P.C.
CLMN Number of Claims: 5
ECL Exemplary Claim: 1
DRWN 13 Drawing Figure(s); 12 Drawing Page(s)
LN.CNT 4241

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to flea serine protease proteins,
aminopeptidase proteins and flea cysteine protease proteins; to flea
serine protease, aminopeptidase and cysteine protease nucleic acid
molecules, including those that encode such proteins; to antibodies
raised against such proteins; and to compounds that inhibit flea serine
protease, aminopeptidase and/or cysteine protease activities. The
present invention also includes methods to obtain such proteins, nucleic
acid molecules, antibodies, and inhibitors. Also included in the present
invention are therapeutic compositions comprising such proteins, nucleic
acid molecules, antibodies, and/or inhibitors as well as the use of such
therapeutic compositions to protect a host animal from flea infestation.

L3 ANSWER 8 OF 34 WPINDEX (C) 2003 THOMSON DERWENT

AN 2001-442283 [47] WPINDEX

DNN N2001-327124 DNC C2001-133799

TI Diagnosing (M1) a tumor in the central nervous system (CNS) of a mammal
comprises contacting a bodily fluid from the mammal with a ligand that
binds to an inter-alpha trypsin inhibitor polypeptide and detecting the
bound complex.

DC B04 D16 S03

IN HIXSON, D C; LIM, Y

PA (RHOD-N) RHODE ISLAND HOSPITAL LIFESPAN PARTNER

CYC 95

PI WO 2001053835 A2 20010726 (200147)* EN 33p

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
NL OA PT SD SE SL SZ TR TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM
DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

AU 2001029739 A 20010731 (200171)

EP 1252519 A2 20021030 (200279) EN

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI TR

US 6489128 B1 20021203 (200301)

ADT WO 2001053835 A2 WO 2001-US2269 20010124; AU 2001029739 A AU 2001-29739
20010124; EP 1252519 A2 EP 2001-942717 20010124, WO 2001-US2269 20010124;
US 6489128 B1 US 2000-491479 20000124

FDT AU 2001029739 A Based on WO 200153835; EP 1252519 A2 Based on WO 200153835

PRAI US 2000-491479 20000124

AB WO 200153835 A UPAB: 20010822

NOVELTY - Diagnosing (M1) a tumor in the central nervous system (CNS) of a mammal comprising contacting a bodily fluid from the mammal with a ligand that binds to an inter-alpha trypsin inhibitor (ITI) light chain or ITI polypeptide under conditions sufficient to form an ITI-ligand complex and detecting the complex, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) Prognosis (M2) of a tumor in the CNS of a mammal comprising:
 - (a) contacting a bodily fluid from the mammal with a ligand that binds to an ITI polypeptide, forming an ITI ligand complex and detecting the complex,
 - (b) quantitating the amount of complex to determine the level of ITI in the fluid; and
 - (c) comparing the level of ITI in the fluid with a normal control level of ITI where increasing the level of ITI over time indicates an adverse prognosis;
- (2) A monoclonal antibody (I) that binds to an epitope of ITI light chain;
- (3) A kit for diagnosis or prognosis of a tumor in the CNS comprising (I);
- (4) Inhibiting (M3) metastases of a systemic cancer into the CNS of a mammal or inhibiting metastases of a primary CNS cancer comprising administering a composition which is infused into the cerebrospinal fluid of the mammal.

ACTIVITY - Cytostatic; antimetastatic.

MECHANISM OF ACTION - Serine protease inhibitor.

To evaluate the therapeutic effect of ITI as a anti-metastatic agent an in vitro three dimensional cell invasion assay was carried out. Three different cancer cell types with various degrees of invasiveness were tested. Human prostatic cancer cells, PC-3 cells, were less invasive in this assay than human leukemic assay K562. The non-metastatic human colon adenocarcinoma cell line, Clone D of DLD-1 was used as a negative control. When ITI was added to PC-3 cells, migration of the cells was inhibited. The inhibitory activity of ITI was concentration dependent and specifically abolished by the addition of mAb 69.31. In contrast addition of an unrelated antibody had little or no effect on the ability of ITI to inhibit metastases.

USE - M1 is useful for diagnosing a tumor in the central nervous system (CNS) of a mammal. M2 is useful for prognosis of a tumor in the CNS of a mammal. M3 is useful for inhibiting (M3) metastases of a systemic cancer into the CNS of a mammal or inhibiting metastases of a primary CNS cancer (all claimed).

ADVANTAGE - The method provides an accurate and reliable method of diagnosing primary brain tumors or brain metastases.
Dwg.0/4

L3 ANSWER 9 OF 34 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE
2

AN 2001:209134 BIOSIS

DN PREV200100209134

TI Fusion proteins, DNA molecules, vectors, and host cells useful for measuring protease activity.

AU Germann, Ursul (1); Hooock, Thomas; Kwong, Ann

CS (1) Newton, MA USA

ASSIGNEE: Vertex Pharmaceuticals Incorporated

PI US 6117639 September 12, 2000

SO Official Gazette of the United States Patent and Trademark Office Patents, (Sep. 12, 2000) Vol. 1238, No. 2, pp. No Pagination. e-file.

ISSN: 0098-1133.

DT Patent

LA English

AB The present invention relates to novel fusion proteins, DNA molecules encoding the same, vectors comprising the DNA molecules, and host cells containing the vectors for use in measuring protease activity using a novel transcriptional assay. This invention also relates to a method for determining the inhibitory activity of a compound against a protease and to a method for comparing the activity of two proteases which recognize the same cleavage site. **Kits** for assaying **protease activity** comprising DNA molecules encoding the fusion protein substrates of this invention are also contemplated.

L3 ANSWER 10 OF 34 BIOTECHABS COPYRIGHT 2003 THOMSON DERWENT AND ISI

AN 2001-03247 BIOTECHABS

TI Novel previn compounds useful for inhibiting the protease activity of botulinum B and tetanus toxins;
recombinant previn expression in host cell for use in botulinum toxin-B or tetanus toxin detection and poisoning therapy

AU Gordon R K; Moorad D R; Doctor B P; Garcia G E

PA U.S.Army

LO Fort Detrick, MD, USA.

PI WO 2000069891 23 Nov 2000

AI WO 2000-US13215 15 May 2000

PRAI US 1999-134446 17 May 1999

DT Patent

LA English

OS WPI: 2001-025001 .[03]

AB Isolated and purified forms of Previn compounds (I) which inhibit the enzymatic activity of Botulinum toxin-B and tetanus neurotoxins are claimed. (I) have a disclosed core structure of given formula. Also claimed are: a recombinant expression system (II) comprising a nucleotide sequence encoding (I), which is capable of inhibiting the protease activity of Botulinum toxin-B or tetanus toxin and comprising a core structure of the disclosed formula, operably linked to a control sequence; a recombinant host cell (III) modified to contain (II); producing (I); antibodies specifically immunoreactive with (I); an assay utilizing an antibody; determining if an unknown compound is a previn by measuring the ability of the compound to inhibit botulinum toxin-B and tetanus toxin **protease activity**; a **kit** for treating or preventing botulinum toxin-B or tetanus toxin intoxication comprising (I); and a kit comprising an antibody for detecting tetanus toxin or botulinum toxin in a sample. (47pp)

L3 ANSWER 11 OF 34 BIOTECHABS COPYRIGHT 2003 THOMSON DERWENT AND ISI

AN 2000-07201 BIOTECHABS

TI Novel fusion protein comprising a protease cleavage site, a ligand binding domain and a DNA binding domain useful for characterizing proteases, detecting virus infections and screening for protease-inhibitors;
recombinant fusion protein production via vector plasmid
pVgRXR-mediated gene transfer and expression in COS cell culture and protease-inhibitor isolation for cancer therapy

AU Germann U; Hoock T; Kwong A

PA Vertex-Pharm.

LO Cambridge, MA, USA.

PI WO 2000012727 9 Mar 2000

AI WO 1999-US19926 31 Aug 1999

PRAI US 1998-144759 31 Aug 1998

DT Patent

LA English

OS WPI: 2000-246756 [21]

AB A fusion protein (I) which consists of a protease cleavage site and ligand and DNA binding domains, that can bind to a reporter gene

associated ligand-responsive element in a ligand mediated manner, where (I) also consists of an expression modulator domain or associates with a second protein with an expression modulator domain that regulates the transcription of the reporter gene, is new. Also claimed are: a DNA molecule encoding (I); a vector (e.g. plasmid pVgRXR) containing the above DNA molecule; a host cell (e.g. COS cell) transfected with the vector; a method for producing (I) by culturing the host cells; methods for assaying for protease activity in vitro and in vivo; a method for determining a compounds inhibitory activity towards protease; a method for comparing the activity of 2 proteases that recognize the same cleavage site; and a **kit** for carrying out the **protease activity** assays. The above may be useful for detecting virus, cellular or microorganism proteases, for the biochemical characterization of these proteases, for diagnosing virus infection and for screening for protease-inhibitors, which may be useful for treating e.g. Alzheimer disease and cancer. (81pp)

L3 ANSWER 12 OF 34 USPATFULL

AN 2000:157179 USPATFULL

TI Flea protease proteins and uses thereof

IN Grieve, Robert B., Windsor, CO, United States

Rushlow, Keith E., Ft. Collins, CO, United States

Hunter, Shirley Wu, Ft. Collins, CO, United States

Frank, Glenn R., Wellington, CO, United States

Stiegler, Gary L., Ft. Collins, CO, United States

Gaines, Patrick J., Ft. Collins, CO, United States

Silver, Gary, Ft. Collins, CO, United States

PA Heska Corporation, Ft. Collins, CO, United States (U.S. corporation)

PI US 6150125 20001121

AI US 1996-639075 19960424 (8)

RLI Continuation-in-part of Ser. No. US 1995-484211, filed on 7 Jun 1995, now patented, Pat. No. US 5972645, issued on 26 Oct 1999 And a continuation-in-part of Ser. No. US 1995-482130, filed on 7 Jun 1995, now patented, Pat. No. US 5962257, issued on 5 Oct 1999 And a continuation-in-part of Ser. No. US 1998-485443, filed on 7 Jun 1998 And a continuation-in-part of Ser. No. US 1995-485455, filed on 7 Jun 1995, now patented, Pat. No. US 5712143, issued on 27 Jan 1998 which is a continuation-in-part of Ser. No. US 1994-326773, filed on 18 Oct 1994, now patented, Pat. No. US 5766609, issued on 16 Jun 1998 which is a continuation-in-part of Ser. No. US 1991-806482, filed on 13 Dec 1991, now patented, Pat. No. US 5356622, issued on 18 Oct 1994

DT Utility

FS Granted

EXNAM Primary Examiner: Allen, Marianne P.

LREP Sheridan Ross, P.C.

CLMN Number of Claims: 9

ECL Exemplary Claim: 1

DRWN 13 Drawing Figure(s); 12 Drawing Page(s)

LN.CNT 9114

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to flea serine protease proteins, aminopeptidase proteins and flea cysteine protease proteins; to flea serine protease, aminopeptidase and cysteine protease nucleic acid molecules, including those that encode such proteins; to antibodies raised against such proteins; and to compounds that inhibit flea serine protease, aminopeptidase and/or cysteine protease activities. The present invention also includes methods to obtain such proteins, nucleic acid molecules, antibodies, and inhibitors. Also included in the present invention are therapeutic compositions comprising such proteins, nucleic acid molecules, antibodies, and/or inhibitors as well as the use of such therapeutic compositions to protect a host animal from flea infestation.

L3 ANSWER 13 OF 34 USPATFULL

AN 2000:153504 USPATFULL

TI Flea protease proteins

IN Grieve, Robert B., Windsor, CO, United States
Rushlow, Keith E., Ft. Collins, CO, United States
Hunter, Shirley Wu, Ft. Collins, CO, United States
Frank, Glenn R., Wellington, CO, United States
Stiegler, Gary L., Ft. Collins, CO, United States

PA Heska Corporation, Ft. Collins, CO, United States (U.S. corporation)

PI US 6146870 20001114

AI US 1995-485443 19950607 (8)

RLI Continuation-in-part of Ser. No. US 1994-326773, filed on 18 Oct 1994, now patented, Pat. No. US 5766609, issued on 16 Jun 1998 which is a continuation-in-part of Ser. No. US 1991-806482, filed on 13 Dec 1991, now patented, Pat. No. US 5356622, issued on 18 Oct 1994

DT Utility

FS Granted

EXNAM Primary Examiner: Allen, Marianne P.

LREP Sheridan Ross P.C.

CLMN Number of Claims: 8

ECL Exemplary Claim: 1

DRWN 10 Drawing Figure(s); 9 Drawing Page(s)

LN.CNT 3985

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to flea serine protease and aminopeptidase proteins; to flea serine protease and aminopeptidase nucleic acid molecules, including those that encode such proteins; to antibodies raised against such proteins; and to compounds that inhibit flea serine protease and/or aminopeptidase activities. The present invention also includes methods to obtain such proteins, nucleic acid molecules, antibodies, and inhibitors. Also included in the present invention are therapeutic compositions comprising such proteins, nucleic acid molecules, antibodies, and/or inhibitors as well as the use of such therapeutic compositions to protect a host animal from flea infestation.

L3 ANSWER 14 OF 34 USPATFULL

AN 2000:145886 USPATFULL

TI Methods of eliciting an antibody response using flea protease proteins and homologs thereof

IN Grieve, Robert B., Ft. Collins, CO, United States
Rushlow, Keith E., Ft. Collins, CO, United States
Hunter, Shirley W., Ft. Collins, CO, United States
Frank, Glenn R., Wellington, CO, United States
Stiegler, Gary L., Ft. Collins, CO, United States

PA Heska Corporation, Ft. Collins, CO, United States (U.S. corporation)

PI US 6139840 20001031

WO 9611706 19960425

AI US 1997-817795 19970801 (8)

WO 1995-US14442 19951018

19970801 PCT 371 date

19970801 PCT 102(e) date

DT Utility

FS Granted

EXNAM Primary Examiner: Allen, Marianne P.

CLMN Number of Claims: 4

ECL Exemplary Claim: 1

DRWN 12 Drawing Figure(s); 11 Drawing Page(s)

LN.CNT 5533

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to flea serine protease and aminopeptidase proteins; to flea serine protease and aminopeptidase nucleic acid molecules, including those that encode such proteins; to antibodies

raised against such proteins; and to compounds that inhibit flea serine protease and/or aminopeptidase activities. The present invention also includes methods to obtain such proteins, nucleic acid molecules, antibodies, and inhibitors. Also included in the present invention are therapeutic compositions comprising such proteins, nucleic acid molecules, antibodies, and/or inhibitors as well as the use of such therapeutic compositions to protect a host animal from flea infestation.

L3 ANSWER 15 OF 34 USPTAFULL

AN 2000:124813 USPTAFULL

TI Flea aminopeptidase proteins and uses thereof

IN Grieve, Robert B., Ft. Collins, CO, United States

Rushlow, Keith E., Ft. Collins, CO, United States

Hunter, Shirley Wu, Ft. Collins, CO, United States

Frank, Glenn R., Wellington, CO, United States

Stiegler, Gary L., Ft. Collins, CO, United States

PA Heska Corporation, Ft. Collins, CO, United States (U.S. corporation)

PI US 6121035 20000919

AI US 1997-906616 19970805 (8)

RLI Division of Ser. No. US 1996-639075, filed on 24 Apr 1996 which is a continuation-in-part of Ser. No. US 1995-484211, filed on 7 Jun 1995, now patented, Pat. No. US 5972645 And a continuation-in-part of Ser. No. US 1995-482130, filed on 7 Jun 1995, now patented, Pat. No. US 5962257 And a continuation-in-part of Ser. No. US 1995-485443, filed on 7 Jun 1995 And a continuation-in-part of Ser. No. US 1995-485455, filed on 7 Jun 1995, now patented, Pat. No. US 5712143, said Ser. No. US 484211, said Ser. No. US 482130, said Ser. No. US 485443 which is a continuation-in-part of Ser. No. US 1994-326773, filed on 18 Oct 1994, now patented, Pat. No. US 5766609 which is a continuation-in-part of Ser. No. US 1991-806482, filed on 13 Dec 1991, now patented, Pat. No. US 5356622, said Ser. No. US 1996-639075, filed on 24 Apr 1996 which is a continuation-in-part of Ser. No. US 1994-326773, filed on 18 Oct 1994, now patented, Pat. No. US 5766609 And a continuation-in-part of Ser. No. WO 1995-US14442, filed on 18 Oct 1995

DT Utility

FS Granted

EXNAM Primary Examiner: Allen, Marianne P.

LREP Sheridan Ross P.C.

CLMN Number of Claims: 7

ECL Exemplary Claim: 1

DRWN 13 Drawing Figure(s); 12 Drawing Page(s)

LN.CNT 8902

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to flea serine protease proteins, aminopeptidase proteins and flea cysteine protease proteins; to flea serine protease, aminopeptidase and cysteine protease nucleic acid molecules, including those that encode such proteins; to antibodies raised against such proteins; and to compounds that inhibit flea serine protease, aminopeptidase and/or cysteine protease activities. The present invention also includes methods to obtain such proteins, nucleic acid molecules, antibodies, and inhibitors. Also included in the present invention are therapeutic compositions comprising such proteins, nucleic acid molecules, antibodies, and/or inhibitors as well as the use of such therapeutic compositions to protect a host animal from flea infestation.

L3 ANSWER 16 OF 34 USPTAFULL

AN 2000:77203 USPTAFULL

TI Flea aminopeptidase nucleic acid molecules and uses thereof

IN Grieve, Robert B., Windsor, CO, United States

Rushlow, Keith E., Ft. Collins, CO, United States

Hunter, Shirley Wu, Ft. Collins, CO, United States

Frank, Glenn R., Wellington, CO, United States

Stiegler, Gary L., Ft. Collins, CO, United States
Gaines, Patrick J., Ft. Collins, CO, United States
PA Heska Corporation, Ft. Collins, CO, United States (U.S. corporation)
PI US 6077687 20000620
AI US 1997-906769 19970805 (8)
RLI Division of Ser. No. US 1996-639075, filed on 24 Apr 1996 which is a continuation-in-part of Ser. No. US 1995-484211, filed on 7 Jun 1995, now patented, Pat. No. US 5922645 which is a continuation-in-part of Ser. No. US 1995-482130, filed on 7 Jun 1995, now patented, Pat. No. US 5962257 And a continuation-in-part of Ser. No. US 1995-485455, filed on 7 Jun 1995, now patented, Pat. No. US 5712143, issued on 27 Jan 1998 which is a continuation-in-part of Ser. No. US 1994-326773, filed on 18 Oct 1994, now patented, Pat. No. US 5766609, issued on 16 Jun 1998 which is a continuation-in-part of Ser. No. US 1991-806482, filed on 13 Dec 1991, now patented, Pat. No. US 5356622, issued on 18 Oct 1994 And a continuation-in-part of Ser. No. WO 1995-US14442, filed on 18 Oct 1995 which is a continuation-in-part of Ser. No. US 1995-485443, filed on 7 Jun 1995
DT Utility
FS Granted
EXNAM Primary Examiner: Allen, Marianne P.
LREP Sheridan Ross P.C.
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 13 Drawing Figure(s); 12 Drawing Page(s)
LN.CNT 7742
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to flea serine protease proteins, aminopeptidase proteins and flea cysteine protease proteins; to flea serine protease, aminopeptidase and cysteine protease nucleic acid molecules, including those that encode such proteins; to antibodies raised against such proteins; and to compounds that inhibit flea serine protease, aminopeptidase and/or cysteine protease activities. The present invention also includes methods to obtain such proteins, nucleic acid molecules, antibodies, and inhibitors. Also included in the present invention are therapeutic compositions comprising such proteins, nucleic acid molecules, antibodies, and/or inhibitors as well as the use of such therapeutic compositions to protect a host animal from flea infestation.

L3 ANSWER 17 OF 34 USPATFULL
AN 2000:31211 USPATFULL
TI Fluorogenic peptides for the detection of protease activity
IN Komoriya, Akira, Rockville, MD, United States
Packard, Beverly S., Rockville, MD, United States
PA Oncoimmunin, Inc., Gaithersburg, MD, United States (U.S. corporation)
PI US 6037137 20000314
AI US 1997-802981 19970220 (8)
DT Utility
FS Granted
EXNAM Primary Examiner: MacMillan, Keith D.; Assistant Examiner: Ricigliano, Joseph W.
LREP Majestic, Parsons, Siebert & Hsue
CLMN Number of Claims: 38
ECL Exemplary Claim: 1
DRWN 9 Drawing Figure(s); 6 Drawing Page(s)
LN.CNT 5541
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides for novel reagents whose fluorescence increases in the presence of particular proteases. The reagents comprise a characteristically folded peptide backbone each end of which is conjugated to a fluorophore. When the folded peptide is cleaved, as by digestion with a protease, the fluorophores provide a high intensity

fluorescent signal at a visible wavelength. Because of their high fluorescence signal in the visible wavelengths, these protease indicators are particularly well suited for detection of protease activity in biological samples, in particular in frozen tissue sections. Thus this invention also provides for methods of detecting protease activity in situ in frozen sections.

L3 ANSWER 18 OF 34 WPINDEX (C) 2003 THOMSON DERWENT

AN 2000-475705 [41] WPINDEX

DNN N2000-354888 DNC C2000-142585

TI High-throughput methods for identifying modulators of protease activity comprises exposing an alpha-donor fusion polypeptide to a protease to allow protease cleavage, and measuring the resulting beta-galactosidase activity.

DC B04 D16 S03

IN MENZEL, R; WANG, S

PA (SMAL-N) SMALL MOLECULE THERAPEUTICS INC

CYC 89

PI WO 2000039348 A1 20000706 (200041)* EN 34p

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
OA PT SD SE SL SZ TZ UG ZW

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK EE ES FI
GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ
TM TR TT UA UG UZ VN YU ZA ZW

AU 2000022178 A 20000731 (200050)

EP 1141419 A1 20011010 (200167) EN

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI

ADT WO 2000039348 A1 WO 1999-US31026 19991223; AU 2000022178 A AU 2000-22178 19991223; EP 1141419 A1 EP 1999-966678 19991223, WO 1999-US31026 19991223

FDT AU 2000022178 A Based on WO 200039348; EP 1141419 A1 Based on WO 200039348

PRAI US 1998-113589P 19981224

AB WO 200039348 A UPAB: 20000831

NOVELTY - Identifying modulators (I) of protease activity comprising assays that detect and measure the level of beta -galactosidase activity.

DETAILED DESCRIPTION - (I) comprises:

(a) contacting a test compound with a cell or a sample comprising an alpha -donor fusion polypeptide, a protease, and an alpha -acceptor, under conditions and for a period sufficient for protease cleavage, where the alpha -donor fusion polypeptide comprises an alpha -donor in operative association with a protease substrate, and where protease cleavage of the alpha -donor fusion polypeptide results in beta -galactosidase activity;

(b) measuring the level of beta -galactosidase activity; and

(c) comparing the level of beta -galactosidase activity in (b) to the level obtained in the absence of the test compound. If the level in (b) differs from that obtained in the absence of the test compound, a compound that modulates the activity of a protease is identified.

INDEPENDENT CLAIMS are also included for the following:

(1) a cell comprising a nucleic acid molecule or molecules that express an alpha -donor fusion polypeptide, a protease, and an alpha -acceptor, where the alpha -donor fusion polypeptide has an alpha -donor in operative association with a protease substrate, and where protease cleavage of the alpha -donor fusion polypeptide results in beta -galactosidase activity;

(2) an alpha -donor fusion polypeptide comprising an alpha -donor in operative association with a protease substrate;

(3) a **kit** for identifying modulators of **protease activity**;

(4) a compound that inhibits protease activity identified by the methods; and

(5) treating a patient with an infectious disease comprising

administering to the patient an amount of a compound that inhibits the activity of the ribosomal protein identified by the methods.

USE - The method is useful for identifying compounds that modulate protease activity, as well as for assaying for protease activity. The protease modulators identified by the assays are useful as therapeutic agents against viral, bacterial or fungal infections, or cancer. Protease inhibitors or agonists identified by the method are also useful in treating contaminated items, e.g. crops, wood, metal or plastic.

ADVANTAGE - The methods are high throughput assays that are sensitive, and can be performed rapidly and without the use of radioactivity. The present method allow for the use of large, more native-like protease substrates, rather than only synthetic peptides, thus creating an assay system that more closely mimics endogenous, in vivo situations.

Dwg.0/8

L3 ANSWER 19 OF 34 WPINDEX (C) 2003 THOMSON DERWENT

AN 2000-246756 [21] WPINDEX

DNC C2000-074787

TI Novel fusion protein comprising a protease cleavage site, a ligand binding domain, and a DNA binding domain useful for characterizing proteases, detecting viral infection, and screening for protease inhibitors.

DC B04 D16

IN GERMANN, U; HOOCK, T; KWONG, A

PA (VERT-N) VERTEX PHARM INC

CYC 89

PI WO 2000012727 A1 20000309 (200021)* EN 81p

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL
OA PT SD SE SL SZ UG ZW

W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS
LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ
TM TR TT UA UG UZ VN YU ZA ZW

AU 9960234 A 20000321 (200031)

US 6117639 A 20000912 (200046)

EP 1109920 A1 20010627 (200137) EN

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI

JP 2002523102 W 20020730 (200264) 83p

ADT WO 2000012727 A1 WO 1999-US19926 19990831; AU 9960234 A AU 1999-60234
19990831; US 6117639 A US 1998-144759 19980831; EP 1109920 A1 EP
1999-968247 19990831, WO 1999-US19926 19990831; JP 2002523102 W WO
1999-US19926 19990831, JP 2000-567713 19990831

FDT AU 9960234 A Based on WO 200012727; EP 1109920 A1 Based on WO 200012727;
JP 2002523102 W Based on WO 200012727

PRAI US 1998-144759 19980831

AB WO 200012727 A UPAB: 20021105

NOVELTY - Novel fusion protein (I) comprising a protease cleavage site (PCS), and ligand and DNA binding domains (LBD and DBD respectively), that binds to a reporter gene associated ligand-responsive element (LRE) in a ligand mediated manner, where (I) also comprises an expression modulator domain, or associates with a second protein with an expression modulator domain that regulates the transcription of the reporter gene.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) a DNA molecule encoding a fusion protein as in (I);
- (2) a vector comprising the DNA of (1);
- (3) a host cell transformed with the vector of (2);
- (4) producing (I) comprising culturing the host cells of (3);
- (5) assaying protease activity in vitro comprising:
 - (a) incubating (I) in an in vitro transcription extract with a protease and a DNA molecule comprising an LRE which binds to the DBD of

(I), a promoter modulated by (I), and a reporter gene;

(b) adding a ligand which is required for the binding of (I) to the LRE or a protein binding partner; and

(c) quantifying the gene product produced from the reporter gene;

(6) assaying protease activity in a cells comprising:

(a) culturing the host cells of (3);

(b) adding a ligand as in (5.b) to the cell culture; and

(c) quantifying the gene product produced from the reporter gene;

(7) determining the inhibitory activity of a compound (TC) against a protease comprising:

(a) culturing the host cells of (3) in the absence of TC;

(b) culturing the host cells of (3) in the presence of TC;

(c) adding a ligand as in (5.b) the cultures; and

(d) comparing the amount of gene product produced by the reporter gene in the cultures of (7.a) and (7.b);

(8) comparing the activity of 2 proteases which recognize the same cleavage site comprising:

(a) culturing the host cells of (3) where the cells express a protease capable of cleaving the PCS of (I);

(b) culturing the host cells of (3) where the cells express a second protease capable of cleaving the PCS of (I);

(c) adding a ligand as in (5.b) the cultures; and

(d) comparing the amount of reporter gene product produced in the cultures of (8.a) and (8.b); and

(9) a **kit for assaying protease activity** comprising:

(a) a DNA molecule as in (1) or a vector as in (2);

(b) a DNA molecule comprising an LRE that can be bound by the DBD of (I), a promoter that is modulated by an expression modulating domain encoded by the DNA of (9.a), and a reporter gene controlled by the promoter ; and

(c) a ligand required for (I) to bind the LRE or a protein binding partner and modulate reporter expression.

USE - The fusion protein (I), nucleic acids, vectors and host cells encoding it, and kits comprising it are useful as agents for detecting viral, cellular, or microorganism proteases, in the biochemical characterization of these proteases, in detecting viral infection, and in the screening and identification of potential inhibitors. Protease inhibitors may be useful e.g. for treating Alzheimer's disease, cystic fibrosis, emphysema, hypertension, tumor invasion and metastasis, and viral-associated diseases.

ADVANTAGE - The assay methods are quick and simple to perform.

DESCRIPTION OF DRAWING(S) - The figure shows the structure of the vectors pVgRXR, pVgRXR-5A/5B, and pVgRXR-5A(Stop)5B.

Dwg.1/9

L3 ANSWER 20 OF 34 LIFESCI COPYRIGHT 2003 CSA

AN 2001:47001 LIFESCI

TI Fusion proteins, DNA molecules, vectors, and host cells useful for measuring protease activity

AU Germann, U.; Hoock, T.; Kwong, A.

CS Vertex Pharmaceuticals Incorporated

SO (20000912) . US Patent: 6117639; US CLASS: 435/6; 435/7.1; 435/455; 435/465; 435/471.

DT Patent

FS W3

LA English

SL English

AB The present invention relates to novel fusion proteins, DNA molecules encoding the same, vectors comprising the DNA molecules, and host cells containing the vectors for use in measuring protease activity using a novel transcriptional assay. This invention also relates to a method for

determining the inhibitory activity of a compound against a protease and to a method for comparing the activity of two proteases which recognize the same cleavage site. **Kits** for assaying **protease activity** comprising DNA molecules encoding the fusion protein substrates of this invention are also contemplated.

L3 ANSWER 21 OF 34 USPATFULL
AN 1999:132535 USPATFULL
TI Flea serine protease nucleic acid molecules
IN Grieve, Robert B., Windsor, CO, United States
Rushlow, Keith E., Ft. Collins, CO, United States
Hunter, Shirley Wu, Ft. Collins, CO, United States
Frank, Glenn R., Wellington, CO, United States
Stiegler, Gary L., Ft. Collins, CO, United States
PA Heska Corporation, Ft. Collins, CO, United States (U.S. corporation)
PI US 5972645 19991026
AI US 1995-484211 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1994-326773, filed on 18 Oct 1994, now patented, Pat. No. US 5766609 which is a continuation-in-part of Ser. No. US 1991-806482, filed on 13 Dec 1991, now patented, Pat. No. US 5356622, issued on 18 Oct 1994
DT Utility
FS Granted
EXNAM Primary Examiner: Allen, Marianne P.
LREP Ross P.C., Sheridan
CLMN Number of Claims: 10
ECL Exemplary Claim: 1
DRWN 10 Drawing Figure(s); 9 Drawing Page(s)
LN.CNT 3725
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to flea serine protease and aminopeptidase proteins; to flea serine protease and aminopeptidase nucleic acid molecules, including those that encode such proteins; to antibodies raised against such proteins; and to compounds that inhibit flea serine protease and/or aminopeptidase activities. The present invention also includes methods to obtain such proteins, nucleic acid molecules, antibodies, and inhibitors. Also included in the present invention are therapeutic compositions comprising such proteins, nucleic acid molecules, antibodies, and/or inhibitors as well as the use of such therapeutic compositions to protect a host animal from flea infestation.

L3 ANSWER 22 OF 34 USPATFULL
AN 1999:121160 USPATFULL
TI Flea aminopeptidase nucleic acid molecules
IN Grieve, Robert B., Windsor, CO, United States
Rushlow, Keith E., Ft. Collins, CO, United States
Hunter, Shirley Wu, Ft. Collins, CO, United States
Frank, Glenn R., Wellington, CO, United States
Stiegler, Gary L., Ft. Collins, CO, United States
PA Heska Corporation, Ft. Collins, CO, United States (U.S. corporation)
PI US 5962257 19991005
AI US 1995-482130 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1994-326773, filed on 18 Oct 1994, now patented, Pat. No. US 5766609 which is a continuation-in-part of Ser. No. US 1991-806482, filed on 13 Dec 1991, now patented, Pat. No. US 5356622, issued on 18 Oct 1994
DT Utility
FS Granted
EXNAM Primary Examiner: Allen, Marianne P.
LREP Ross, P.C., Sheridan
CLMN Number of Claims: 8
ECL Exemplary Claim: 1

DRWN 10 Drawing Figure(s); 9 Drawing Page(s)

LN.CNT 3660

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to flea serine protease and aminopeptidase proteins; to flea serine protease and aminopeptidase nucleic acid molecules, including those that encode such proteins; to antibodies raised against such proteins; and to compounds that inhibit flea serine protease and/or aminopeptidase activities. The present invention also includes methods to obtain such proteins, nucleic acid molecules, antibodies, and inhibitors. Also included in the present invention are therapeutic compositions comprising such proteins, nucleic acid molecules, antibodies, and/or inhibitors as well as the use of such therapeutic compositions to protect a host animal from flea infestation.

L3 ANSWER 23 OF 34 USPATFULL

AN 1998:115569 USPATFULL

TI Modified proenzymes as substrates for proteolytic enzymes

IN Verheijen, Johan Hendrikus, Rodenrijs, Netherlands

PA Nederlandse Organisatie voor toegepast-natuurwetenschappelijk Onderzoek TNO, Netherlands (non-U.S. corporation)

PI US 5811252 19980922

AI US 1995-499048 19950706 (8)

PRAI EP 1994-201966 19940707

DT Utility

FS Granted

EXNAM Primary Examiner: Leary, Louise

LREP Londa and Traub LLP

CLMN Number of Claims: 30

ECL Exemplary Claim: 1

DRWN 13 Drawing Figure(s); 11 Drawing Page(s)

LN.CNT 1074

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Detection or determination of a protease in a sample by incubating the sample with a substrate of the protease and observing proteolytic cleavage of said substrate. The substrate is a modified proenzyme containing a recognition site, e.g., an activation site, cleavable by said protease. Proteolytic cleavage of the modified proenzyme is detected by observing the resulting activity using a suitable substrate of the activated proenzyme. The protease may be e.g. an aspartic protease or a metalloprotease, and the modified proenzyme e.g. pro-urokinase having a mutant activation site which is cleavable by the protease to be determined.

L3 ANSWER 24 OF 34 USPATFULL

AN 1998:68539 USPATFULL

TI Use of protease inhibitors and protease vaccines to protect animals from flea infestation

IN Grieve, Robert B., Windsor, CO, United States

Rushlow, Keith E., Ft. Collins, CO, United States

Hunter, Shirley Wu, Ft. Collins, CO, United States

Frank, Glenn R., Wellington, CO, United States

Heath, Andrew, Sheffield, United Kingdom

Yamanaka, Miles, Sacramento, CA, United States

Arfsten, Ann, Belmont, CA, United States

Dale, Beverly, Los Altos, CA, United States

PA Heska Corporation, Ft. Collins, CO, United States (U.S. corporation)

PI US 5766609 19980616

AI US 1994-326773 19941018 (8)

RLI Continuation-in-part of Ser. No. US 1991-806482, filed on 13 Dec 1991, now patented, Pat. No. US 5356622

DT Utility

FS Granted

EXNAM Primary Examiner: Housel, James C.; Assistant Examiner: Swartz, Rodney P.

LREP Sheridan Ross P.C.

CLMN Number of Claims: 23

ECL Exemplary Claim: 1

DRWN 10 Drawing Figure(s); 9 Drawing Page(s)

LN.CNT 2023

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method to protect a host animal from flea infestation by treating that animal with a composition that includes a compound that reduces protease activity of fleas feeding from the treated animal, thereby reducing flea burden on the animal and in the environment of the animal. The present invention also relates to compositions including flea protease vaccines, anti-flea protease antibodies and/or protease inhibitors. Also included in the present invention are soluble flea midgut preparations, flea protease proteins, nucleic acid molecules encoding such proteins and antibodies that selectively bind to such proteins. The present invention also includes methods to obtain and use such preparations, proteins, nucleic acid molecules, antibodies and protease inhibitors to protect an animal from flea infestation.

L3 ANSWER ~~25~~ OF 34 USPATFULL

AN 1998:11888 USPATFULL

TI Compositions for the detection of protease in biological samples and methods of use therefo

IN Komoriya, Akira, Rockville, MD, United States

Packard, Beverly S., Rockville, MD, United States

PA OncoImmunin, Inc., Kensington, MD, United States (U.S. corporation)

PI US 5714342 19980203

AI US 1995-549008 19951027 (8)

RLI Continuation-in-part of Ser. No. US 1994-331383, filed on 28 Oct 1994, now patented, Pat. No. US 5605809, issued on 25 Feb 1997

DT Utility

FS Granted

EXNAM Primary Examiner: Leary, Louise

LREP Townsend and Townsend and Crew LLP

CLMN Number of Claims: 45

ECL Exemplary Claim: 1

DRWN 4 Drawing Figure(s); 4 Drawing Page(s)

LN.CNT 2337

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides for novel reagents whose fluorescence increases in the presence of particular proteases. The reagents comprise a characteristically folded peptide backbone each end of which is conjugated to a fluorophore. When the folded peptide is cleaved, as by digestion with a protease, the fluorophores provide a high intensity fluorescent signal at a visible wavelength. Because of their high fluorescence signal in the visible wavelengths, these protease indicators are particularly well suited for detection of protease activity in biological samples, in particular in frozen tissue sections. Thus this invention also provides for methods of detecting protease activity in situ in frozen sections.

L3 ANSWER ~~26~~ OF 34 USPATFULL

AN 1998:9373 USPATFULL

TI Flea protease proteins, nucleic acid molecules, and uses thereof

IN Grieve, Robert B., Ft. Collins, CO, United States

Rushlow, Keith E., Ft. Collins, CO, United States

Hunter, Shirley Wu, Ft. Collins, CO, United States

Frank, Glenn R., Wellington, CO, United States

Stiegler, Gary L., Ft. Collins, CO, United States

PA Heska Corporation, Ft. Collins, CO, United States (U.S. corporation)

PI US 5712143 19980127
AI US 1995-485455 19950607 (8)
RLI Continuation-in-part of Ser. No. US 1994-326773, filed on 18 Oct 1994
which is a continuation-in-part of Ser. No. US 1991-806482, filed on 13
Dec 1991, now patented, Pat. No. US 5356622, issued on 18 Oct 1994
DT Utility
FS Granted
EXNAM Primary Examiner: Housel, James C.; Assistant Examiner: Swartz, Rodney
P.
LREP Ross P.C., Sheridan
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 10 Drawing Figure(s); 9 Drawing Page(s)
LN.CNT 3603

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to flea serine protease and aminopeptidase
proteins; to flea serine protease and aminopeptidase nucleic acid
molecules, including those that encode such proteins; to antibodies
raised against such proteins; and to compounds that inhibit flea serine
protease and/or aminopeptidase activities. The present invention also
includes methods to obtain such proteins, nucleic acid molecules,
antibodies, and inhibitors. Also included in the present invention are
therapeutic compositions comprising such proteins, nucleic acid
molecules, antibodies, and/or inhibitors as well as the use of such
therapeutic compositions to protect a host animal from flea infestation.

L3 ANSWER 27 OF 34 USPATFULL

AN 97:15966 USPATFULL

TI Compositions for the detection of proteases in biological samples and
methods of use thereof

IN Komoriya, Akira, Rockville, MD, United States

Packard, Beverly S., Rockville, MD, United States

PA Oncoimmunin, Inc., Rockville, MD, United States (U.S. corporation)

PI US 5605809 19970225

AI US 1994-331383 19941028 (8)

DT Utility

FS Granted

EXNAM Primary Examiner: Hollinden, Gary E.; Assistant Examiner: Leary, Louise

LREP Townsend and Townsend and Crew LLP

CLMN Number of Claims: 33

ECL Exemplary Claim: 1

DRWN 8 Drawing Figure(s); 5 Drawing Page(s)

LN.CNT 1931

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides for novel reagents whose fluorescence
increases in the presence of particular proteases. The reagents comprise
a characteristically folded peptide backbone each end of which is
conjugated to a fluorophore. When the folded peptide is cleaved, as by
digestion with a protease, the fluorophores provide a high intensity
fluorescent signal at a visible wavelength. Because of their high
fluorescence signal in the visible wavelengths, these protease
indicators are particularly well suited for detection of protease
activity in biological samples, in particular in frozen tissue sections.
Thus this invention also provides for methods of detecting protease
activity in situ in frozen sections.

L3 ANSWER 28 OF 34 WPINDEX (C) 2003 THOMSON DERWENT

AN 1997-179174 [16] WPINDEX

DNC C1997-057668

TI Modifying peptide containing fluorescing and quenching groups - useful for
assaying hepatitis C virus NS3 protease activity in presence of NS4A
peptide.

DC B04 D16
 IN MASUHO, Y; SHIMIZU, Y; SHIMOTOHNO, K; YAMAJI, K
 PA (RATI-N) RATIONAL DRUG DESIGN LAB
 CYC 71
 PI WO 9708194 A1 19970306 (199716)* JA
 RW: AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD
 SE SZ UG
 W: AL AM AT AU AZ BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE HU
 IL IS JP KE KG KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL
 PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN
 AU 9667541 A 19970319 (199728)
 JP 09510103 X 19980922 (199848)
 ADT WO 9708194 A1 WO 1996-JP2343 19960822; AU 9667541 A AU 1996-67541
 19960822; JP 09510103 X WO 1996-JP2343 19960822, JP 1997-510103 19960822
 FDT AU 9667541 A Based on WO 9708194; JP 09510103 X Based on WO 9708194
 PRAI JP 1995-217950 19950825
 AB WO 9708194 A UPAB: 19970417
 A modifying peptide (I) is provided for assaying hepatitis C virus NS3
 protease activity in the presence of a peptide derived from hepatitis C
 virus NS4A. The modifying peptide has fluorescing and quenching gps each
 covalently attached to functional gps. and contains the aminoacid sequence
 of formula X-Asp-Lys-Ile-Val-Pro-Cys-Ser-Met-Ser-Y-Lys in between the
 residues bonded to each of the fluorescing gp and the quenching gp. In the
 formula, X = a single bond or Lys and Y = a single bond or Tyr.
 USE - (I) is used for assaying hepatitis C virus NS3 **protease**
activity. A **kit** for the assay is claimed. (I) is also
 useful for screening NS3 protease inhibitors which are useful as anti HCV
 agents.
 ADVANTAGE - Assays can be carried out rapidly and with high
 sensitivity. Multiple processing is possible.
 Dwg.1/6

L3 ANSWER 29 OF 34 BIOTECHABS COPYRIGHT 2003 THOMSON DERWENT AND ISI
 AN 1997-02492 BIOTECHABS
 TI Human proteasome subunit P40;
 recombinant protein production for use in antibody production for use
 in immune disease diagnosis and therapy
 PA Sumitomo-Elec.
 LO Japan.
 PI JP 08308567 26 Nov 1996
 AI JP 1995-121484 19 May 1995
 PRAI JP 1995-121484 19 May 1995
 DT Patent
 LA Japanese
 OS WPI: 1997-059690 [06]
 AB A human proteasome subunit P40 protein of disclosed protein sequence is
 claimed. Also claimed are: a polynucleotide encoding the protein and
 having the disclosed DNA sequence; a polypeptide derived from the protein
 with a mutation or variation making a proteasome containing the
 polypeptide have **protease activity**; and a **kit**
 for diagnosis of diseases, by determining proteasome subunit P40 by
 detecting the specific reaction of the subunit with its antibody. The
 kit can be used for immune disease diagnosis and therapy. In an example,
 a human proteasome subunit P40 gene was sequenced. A DNA probe was
 prepared and the protein sequence of the P40 subunit was determined. A
 cDNA probe and a cDNA library were prepared. The library was expressed
 in Escherichia coli. A polyclonal antibody specific for human proteasome
 subunit P40 was prepared. The expression of mRNA of proteasome subunit
 P40 was analyzed. The expression was high in heart and bone muscle and
 low in brain, lung, liver, pancreas and placenta. (15pp)

L3 ANSWER 30 OF 34 USPATFULL

AN 94:44737 USPATFULL
TI Isolated nucleotide sequences encoding an: antigen binding site of monoclonal antibody PD41; and antigen associated with prostate adenocarcinomas
IN Wright, Jr., George L., Norfolk, VA, United States
PA Eastern Virginia Medical School of Medical College of Hampton Roads, Norfolk, VA, United States (U.S. corporation)
PI US 5314996 19940524
AI US 1993-91628 19930713 (8)
RLI Division of Ser. No. US 1992-828057, filed on 30 Jan 1992, now patented, Pat. No. US 5227471
DT Utility
FS Granted
EXNAM Primary Examiner: Lacey, David L.; Assistant Examiner: Adams, Arnold E.
LREP Pennie & Edmonds
CLMN Number of Claims: 4
ECL Exemplary Claim: 1
DRWN 13 Drawing Figure(s); 9 Drawing Page(s)
LN.CNT 1339

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Monoclonal antibodies that bind specifically to prostate carcinoma and do not bind substantially to normal prostate or benign prostatic hyperplasia, as well as hybridoma cell lines producing the monoclonal antibodies are disclosed. In one embodiment, a monoclonal antibody designated MAb PD41 is disclosed. A new antigen designated prostate mucin antigen is disclosed in isolated, substantially pure form. In addition, methods for using the hybridoma cell lines, the monoclonal antibody and/or the antigen for diagnosis, prophylaxis and/or treatment of prostate carcinoma are disclosed.

L3 ANSWER 31 OF 34 USPATFULL

AN 93:57012 USPATFULL
TI Monoclonal antibody PD41 that binds to a prostate mucin antigen that is expressed in human prostatic carcinoma
IN Wright, Jr., George L., Norfolk, VA, United States
PA Eastern Virginia Medical School of the Medical College of Hampton Roads, Norfolk, VA, United States (U.S. corporation)
PI US 5227471 19930713
AI US 1992-828057 19920130 (7)
DT Utility
FS Granted
EXNAM Primary Examiner: Lacey, David L.; Assistant Examiner: Adams, Donald E.
LREP Pennie & Edmonds
CLMN Number of Claims: 4
ECL Exemplary Claim: 1
DRWN 13 Drawing Figure(s); 9 Drawing Page(s)
LN.CNT 1358

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Monoclonal antibodies that bind specifically to prostate carcinoma and do not bind substantially to normal prostate or benign prostatic hyperplasia, as well as hybridoma cell lines producing the monoclonal antibodies are disclosed. In one embodiment, a monoclonal antibody designated MAb PD41 is disclosed. A new antigen designated prostate mucin antigen is disclosed in isolated, substantially pure form. In addition, methods for using the hybridoma cell lines, the monoclonal antibody and/or the antigen for diagnosis, prophylaxis and/or treatment of prostate carcinoma are disclosed.

L3 ANSWER 32 OF 34 IFIPAT COPYRIGHT 2003 IFI DUPLICATE 4

AN 2316811 IFIPAT;IFIUDB;IFICDB
TI METHOD OF DETECTING HIV PROTEASE ACTIVITY; IDENTIFYING PROTEASE INHIBITOR BY COMBINING A SUBSTRATE, PROTEASE, AN ANTIBODY AND A SUSPECTED PROTEASE

INHIBITOR AND DETECTING ANTIBODIES BOUND WITH REACTIVE CLEAVAGE PRODUCT

INF Sharma, Satish K, Portage, MI
 IN Sharma Satish K
 PAF The Upjohn Company, Kalamazoo, MI
 PA Upjohn Co The (87912)
 EXNAM Nucker, Christine M
 EXNAM Dubrule, Chris
 AG DeLuca, Mark
 PI US 5171662 19921215 (CITED IN 013 LATER PATENTS)
 AI US 1991-680679 19910404
 XPD 13 Sep 2010
 RLI US 1990-581715 19900913 CONTINUATION-IN-PART ABANDONED
 FI US 5171662 19921215
 DT UTILITY; REASSIGNED
 FS CHEMICAL
 GRANTED
 OS CA 118:142537
 MRN 005789 MFN: 0293
 CLMN 22

AB A method for identifying compounds that inhibit HIV protease is disclosed. A substrate that comprises an HIV protease cleavage site is combined with HIV protease and test compounds. Cleavage of the substrate indicates protease activity and can be detected using antibodies against a cleavage product which do not cross react with uncleaved substrate. A method of detecting the presence of anti-HIV protease antibodies in a sample is also disclosed. A substrate is combined with the sample and HIV protease. Detection of substrate cleavage indicates that the protease is active and that there is an absence of neutralizing anti-HIV protease antibodies.

L3 ANSWER 33 OF 34 WPINDEX (C) 2003 THOMSON DERWENT
 AN 1991-376740 [51] WPINDEX
 DNC C1991-162457
 TI Evaluating extrinsic and intrinsic coagulation factors - in factor XA assay by use of anti-factor antibodies blocking either pathway.
 DC B04 C03 D16
 IN POLLARD, H B
 PA (USDC) US DEPT OF COMMERCE; (USSH) US DEPT HEALTH & HUMAN SERVICE
 CYC 18
 PI US 685072 A0 19911112 (199151)*
 WO 9218539 A1 19921029 (199246) EN 40p
 RW: AT BE CH DE DK ES FR GB GR IT LU MC NL SE
 W: AU CA JP
 AU 9218796 A 19921117 (199310)
 ADT US 685072 A0 US 1991-685072 19910415; WO 9218539 A1 WO 1992-US2813 19920414; AU 9218796 A AU 1992-18796 19920414, WO 1992-US2813 19920414
 FDT AU 9218796 A Based on WO 9218539
 PRAI US 1991-685072 19910415
 AB US N7685072 N UPAB: 20011211

A method for evaluating the contribution of an extrinsic or intrinsic coagulation factor to a factor Xa assay comprises, (a) incubating a biological sample with antisera contg. anti-factor VII, anti-factor VIII, anti-factor IX, or anti-factor VII, anti-factor VIII, and anti-factor IX under conditions such that antibody/antigen binding can occur, (b) adding factor IX a and factor X, and incubating under conditions such that factor Xa is formed, (c) adding a chromogenic substrate, and (d) assay for change in substrate (c).

USE/ADVANTAGE - The assay is used for the above purpose for cell extracts and plasma from mammals including humans, cattle, and pigs. The required assay materials are ref. brought together as a test kit. Although some measurements on coagulation are at present readily made with the aid of a **CONTEST kit** for factor Xa **protease**

activity and factor VIII, other assays, of the tedious biological type, are run to amplify the results. Using the new positive method, the CONTEST kit results can be expanded to provide maximum information for the clinician without need of bioassays.

L3 ANSWER 34 OF 34 USPATFULL

AN 85:8947 USPATFULL

TI Chymopapain allergen and method

IN Calenoff, Emanuel, Burlingame, CA, United States

Jones, Ruth M., Redwood City, CA, United States

Tsay, Yuh-Geng, San Jose, CA, United States

Beigler, Myron A., Los Altos Hills, CA, United States

PA Axonica, Inc., Mt. View, CA, United States (U.S. corporation)

PI US 4499065 19850212

AI US 1983-489898 19830429 (6)

DT Utility

FS Granted

EXNAM Primary Examiner: Shapiro, Lionel M.

LREP Walker, William B.

CLMN Number of Claims: 14

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 509

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A chymopapain derivative having the enzymatic activity reduced by at least 95% while retaining the original allergenic activity of at least 90% is suitable for skin testing to detect allergic hypersensitivity to chymopapain and for treating patients exhibiting allergic hypersensitivity to chymopapain. The enzymatic activity can be blocked by reacting thiol groups of the enzyme with and iodoacetic acid, bromoacetic acid, or a salt, ester or amide derivative thereof, under conditions which block the undesirable enzymatic activity while retaining the desired allergenic activity.